**Gender disparities in high-quality dermatology research over the past 15 years**

Barak Zlakishvili a, Amir Horev MD b,c

aHebrew University School of Medicine, Jerusalem, Israel;
bFaculty of Health Sciences, Ben-Gurion University of the Negev, Be’er-Sheva, Israel;
cPediatric Dermatology Service, Soroka University Medical Center, Be’er-Sheva, Israel

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**Full contact information of the corresponding author:**

Amir Horev, MD

Head of Pediatric Dermatology

Soroka University Medical Center

Postal address: Yitzhak Rager Ave., POB 151, Beer-Sheva, 8410101, Israel

Telephone number: +972-8-6400653

Email address: amirhr@clalit.org.il

ORCID ID: 0000-0001-6646-9061

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**Abstract**

**Introduction:** In the last 15 years, the percentage of female dermatologists in the United States has increased from 41% to 52.2% and a surge in female authorship (FAP) has been noted. Academic authorship is a pivotal objective measurement of productiveness in academia, and author contribution, as first or senior author, plays a major role in the promotion process of active physicians and faculty members.

**Objective:** To validate, analyze, and clarify trends in FAP in high-quality dermatology research in the last 15 years.

**Methods:** The Thomson Reuters Web of Science Journal Citation Reports 2021 was used to retrieve the 100 most-cited original articles in each 3-year interval between 2009 and 2023 (overall, 500 articles) in the top five dermatology journals according to impact factor (2021). Gender API, a gender algorithm, was used to identify female authors according to country of origin and first name.

**Results:** In total, 14,187 articles were retrieved and subdivided into the 100 most-cited articles in 3-year intervals. From the 500 articles, 418 first and 447 senior authors were identified by gender. FAP was found in 43%, 31%, and 37% of the first, last, and total authors. Monotonic trend analysis for FAP revealed a significant decrease (S = −4610, p < 0.1) in senior FAP. A similar trend was found specifically in the United States (S = −1606, p < 0.1).

**Conclusions:** The last 15 years show a significant decline in senior FAP in high-quality journals in the general dermatology community and particularly in the United States.

**Introduction**

In the last 15 years, a shift has occurred in the genders of active physicians in the field of dermatology. The percentages of female and male dermatologists in the United States have respectively increased from 41% to 52.2% and decreased from 59% to 47.8%.1 This trend was also present in the three decades prior to 2006, with a dramatic influx of female dermatologists into the field in the United States. Moreover, during those decades, a surge in female dermatologist authorship was noted in journals with high impact factors (IFs) and high citation half-lives in the United States. For example, an observational study published in the *Journal of the American Academy of Dermatology* (JAAD)2 showed a statistically significant increase during that period in United States-affiliated first authors (FAs) and senior authors (SAs), from 12% to 48% and 6.2% to 31%, respectively.

Academic authorship is a pivotal objective measurement of productiveness in academia and is often used when active physicians and faculty members are being considered for promotion.2,3 In original articles, the FA is normally responsible for the execution and writing of the entire study, whereas the SA, due to status and contribution, makes the conduction of the paper possible but may not explicitly partake in major labor regarding the manuscript.4 Senior researchers might prefer to be located last while young or less experienced researchers would normally be placed as FAs or coauthors, meaning that allocation as SA improves the standing and reputation of researchers more than FA or coauthor allocation.5,6

Several studies have been published on gender gaps in the field of dermatology. The first, by Bendels et al., comprised a retrospective descriptive study of 23,373 articles written by 74,354 authors published in 23 Q1 dermatological journals (i.e., the top quartile of published journals) between 2008 and 2017. The scientific authorship results indicated female FA and SA percentages of 50.2% and 33.1%, respectively.7 Two other studies focused on pediatric dermatology and contact dermatitis. The first, which analyzed 352 original articles published between 1983 and 2019 in the journal *Pediatric Dermatology*, found that female FAs and SAs comprised 71% and 65%, respectively.8 The second, which investigated female representation in contact dermatitis research, showed a significant increase in female authorship (FAP) between 1992 and 2019, from 37% to 66% for FAs and from 27% to 61% for SAs.9 Thus, the evidence shows different trends and data arising from different studies of female representation in dermatology. In analysis of the field of dermatology, the trends were less steep and showed a lower proportion of female FAs and SAs than in subanalyses of dermatology fields such as pediatrics or contact dermatitis.7-9 Therefore, to further validate and report gender disparities in high-quality dermatology research, we focused our analysis on the 100 most-cited articles published in the top five Q1 dermatology journals in 3-year intervals between 2009 and 2023.

**Materials and methods**

Bibliometric analysis is a method used to assess literature with metric tools, such as statistical analysis and refinement of extracted data with regard to certain parameters, including citation rates, impact factor, and country of origin. This analysis may help researchers to reach conclusions regarding changes in research foci, topics, and study design over a period of time. For instance, analysis of the 100 most-cited articles in a certain period of time might reveal the changes, trends, and high-yield conclusions in a specific field and could identify gaps in knowledge and direct research needs.10,11 For the current analysis, approval from an ethics committee was not required, given that no data collection or animal or human experimental interventions took place.

Search strategy: Original articles published in the top five dermatology journals according to the Thomson Reuters Web of Science (WebOS) Journal Citation Reports 2021 were retrieved on May 11th, 2023. Refinement and subdivision were conducted to include the 100 most-cited articles in each 3-year interval between 2009 and 2023. The 100 most-cited articles were refined as described previously by Mahamud and Mainwaring and by Bullock et al.,12,13 and the use of 3-year intervals was described by Baker et al.8 To encompass the trends that have occurred over the years, we conducted the search using the following strategy: dermatology was designated as the WebOS search category, and the results were restricted to original articles in the field of dermatology between 2009 and 2023, with no limitation on language. Raw data and graphs were analyzed using Microsoft Excel software.

Data extraction and bibliometric parameters: The original articles were extracted to Microsoft Excel 2019. The search results directly facilitated the retrieval of the title, total citations (TCs) by the WebOS database, journal, year of publication, FA, and SA. The annual citation (AC) metric, which is TCs divided by the age in years of the publication, is a tool designed to counter the bias arising from older publications having more prominent citations over time.14,15,16 The research focus was determined by screening the abstract, available full text, and keywords of the articles. Country of origin was recorded according to the FA’s and SA’s information for each article. Journal impact factors (IFs) were acquired from the 2021 WebOS database.

Determination of gender: Gender API (GAPI) (<http://www.gender-api.com>) is a validated algorithm,17 applied in previous work,8 that uses social media and publicly available government databases to differentiate gender based on first name. GAPI was used to encode the gender of authors as either male or female. GAPI contains approximately 1,850,000 unique first names across 177 countries and assigns relative gender probabilities of 0–100 for each name accordingly. Gender was coded M for male and F for female if the probability was 95% or higher that the name would match a specific gender. Unassigned gender was coded as N for “non-assigned”.

Statistical analysis: Statistical analysis was performed in JASP18 and Microsoft Excel using XLSTAT. Data normality was assessed using the Shapiro-Wilk test and heterogeneity was assessed using Levine’s test. The categorical variable of gender was evaluated by assigning the value of 1 for females and 0 for males. Due to the lack of a normal data distribution, statistical differences were evaluated for non-parametric data using the Kruskal-Wallis test with a Dunn post hoc test to compare groups on a dependent variable and using a Kendall tau-b correlation test with a significance level of 95% (p < 0.05). A Mann-Kendall monotonic trend test was used for dependent variables in a time series with a trend significance level of 90% (p < 0.1). The value of “S” in the Mann-Kendall test was calculated by comparing the values of subsequent gender values in the time series. For each comparison pair, the score was +1 if the latter value was greater than the former and −1 if it was smaller and all scores were then summed to calculate the test statistic “S”. Thus, a positive “S” means that the trend for FAP is increasing while a negative “S” means that the trend for FAP is decreasing. The “Z” statistic of the Kruskal-Wallis test indicates how the average rank for a certain group, as calculated by FAP, compares to the average rank of all observations.

**Results**

In total, 14,187 original articles in the field of dermatology published between 2009 and 2023 in the top five dermatology journals were retrieved from the Thomson Reuters WebOS Journal Citation Reports 2021. The refined sample was ranked according to ACs and is seen in Supplementary Table 2. Out of 500 original articles, 418 FAs and 447 SAs were identified by gender. FAP percentages comprised 43% for FAs, 31% for SAs, and 37% for the entire identified sample. Mann-Kendall monotonic trend analysis conducted for FAP revealed a significant decrease in female SAs (S = −4610, p < 0.1). Subanalysis by country of origin showed a significant decrease in female SAs of American origin (S = −1606, p < 0.1). Further subanalysis by trends in FAP from European countries revealed an increase in FAs and a decrease in SAs and a general nonsignificant increase in FAs. The above-mentioned trends are shown in Figure 2 alongside the rise in active female dermatologists in the United States. Kendall's tau-b correlation test conducted between FAP and ACs revealed a weak nonsignificant correlation for FAs and SAs. The Kruskal-Wallis test was conducted to examine the effect of different journals and research foci on FAP. While journals did not significantly affect FAP, a diagnostic focus had a significantly higher first FAP than a focus on pathogenesis or treatment (z = 2.3 and 2.05, respectively; p < 0.05). Furthermore, a medical education focus had a significantly higher first FAP than a focus on pathogenesis or treatment (z = 2.42 and 2.12, respectively; p < 0.05). Moreover, epidemiological studies had a significantly higher probability of first FAP compared with pathogenesis-focused studies (z = 2.03, p < 0.05). Different research foci did not appear to significantly affect senior FAP.

**Discussion**

Between 2010 and 2021, the percentage of female dermatologists in the United States steadily increased from 41% to 52.2%.1 In our analysis, first and senior FAP showed an insignificant increase and a significant decrease, respectively. Furthermore, while the total FAP in our study (37%) was higher than in previous studies that analyzed the whole area of science (30%)19 or focused on six high-impact medical journals (34%)20, it was lower than the total FAP of 43% reported by Bendels et al.,7 who analyzed high-quality dermatology research.

This decline, which is an inverse trend from that of the other dermatology-related publications mentioned above,2, 7-9 might be explained by the methodologies of the studies. Feramisco et al. analyzed FAP from 1976 to 2006 in the three most-prestigious general dermatology journals with no other refinement.2 In the subsequent study performed by Bendels et al., a similar increasing trend was observed in an analysis of 23,373 Q1 journal publications in the field of dermatology between 2009 and 2017.7 Nevertheless, the refinement methodology of our analysis to include only the 100 most-cited original articles in the field of dermatology for each 3-year interval could serve as a plausible explanation for this difference. An analysis of the general picture of publications in high IF dermatology journals might show an increasing number of FAP over the years. However, subanalysis of the most-cited articles in each journal for each 3-year interval might reveal the trend presented in our work of an increase and significant decrease in female FAs and SAs, respectively and a significant decrease in United States-origin female SAs. This difference might be further supported by the fact that a focus on subfields in dermatology can shift the trends and present a different picture. When the above-mentioned studies by Feramisco et al. and Bendels et al. are compared to other dermatological gender studies, several of the analyses showed higher percentages of FAP in recent years.2, 7-9 Nevertheless, our analysis revealed lower percentages of FAP and different trends in FAP.

Thus, our study shows a specific refined picture of FAP with an emphasis on the most-cited research in the top five dermatology journals, rather than a larger sample of publications that might introduce other trends. In a subanalysis of the separate effect of each journal on FAP, no effect was found for FAs and SAs, meaning that there was no significant disparity in the authorship of specific journals among those reviewed in our analysis. The same pattern was seen for the different effects of research foci on SA gender. Our examination of the effect of research foci on female FA revealed significantly higher FAP in a comparison of researchers who focused on diagnosis rather than on treatment or pathogenesis. The same pattern was found when the first FAP of medical education was compared to that of treatment or pathogenesis and when epidemiological research was compared to pathogenesis research. This finding might illustrate that females who perform high-quality dermatologic academic studies have taken prominent roles in these studies as FAs more in the foci mentioned above than in the above-stated areas of research in the past 15 years.

The strength of our analysis is mainly derived from our refinement methodology that focused on the most-cited original articles in each 3-year interval from 2009. This method was conducted with regard to the highest citations and IF in dermatology journals to capture bibliometric data of the highest-quality research in dermatology. Another strength of our study is the use of the GAPI algorithm to predict gender with at least 95% probability in order to obtain an accurate picture regarding binary gender trends and to allow the gender identification of authors by their country of origin and name.

Nevertheless, there are several limitations to our study. The first limitation is the selection of a level of significance of 90% for identifying a monotonic trend, which was influenced by the small sample of articles chosen for this analysis. The second limitation is our small sample of articles, which, on the one hand, serves as a focused picture of high-quality dermatology research and, on the other hand, might lead to deviations from the data presented by prior studies. Third, the authors’ gender and profession might be misidentified. Non-binary gender identities could not be included in this analysis due to the inability of the current algorithms and resources to designate a sex other than binary male or female. This is countered by the level of probability of 95% used in the GAPI algorithm. Moreover, when extracting the data from WebOS, we could not analyze the position and profession of each author due to a lack of data. This could lead to the extraction of data in which some authors were from a discipline other than dermatology. To counter this limitation, we focused on the highest-quality dermatology research and further refined the results to include only those results that were published in the dermatology category in the WebOS database.

In conclusion, we present a snapshot of FAP for the highest-quality research in the field of dermatology over the past 15 years. Our analysis of the literature has elucidated the dichotomy created between female FAs and SAs over the study period in the most-cited original articles in the global dermatology community and particularly in the United States. Further tracking and research of trends of FAP over the years is warranted for the further validation of FAP patterns. Accordingly, we hope that our article might open the way to additional research methodologies considering the effect of the choice of sample and subfield analysis on shifting a trend toward any increases and decreases identified.

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**Abbreviations list:**

FA – First author

SA – Senior author

FD – Female dermatologist

MD – Male dermatologist

FAP – Female authorship

GAPI – gender API

EU – European countries

TC – Total citations

AC – Annual citations

IF – Impact factor

JAAD - Journal of The American Academy of Dermatology

JAMA - Jama Dermatology

BJD- British Journal of Dermatology

JEADV - Journal of European Academy of Dermatology and Venereology

JID - Journal of Investigative Dermatology

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| --- | --- |
| Journal | Impact factor (2021) |
| Journal of The American Academy of Dermatology | 15.487 |
| Jama Dermatology  | 11.816 |
| British Journal of Dermatology | 11.113 |
| Journal of European Academy of Dermatology and Venereology | 9.228 |
| Journal of Investigative Dermatology | 7.59 |

Sup table 1

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Rank** | **Title** | **FA** | **SA** | **Year** | **Journal** | **TC** | **AC** | **Ctry. FA** | **Ctry. SA** | **Research focus** |
| 1 | Classification of the cutaneous manifestations of COVID-19: a rapid prospective nationwide consensus study in Spain with 375 cases | Galvan Casas |  Garcia-Doval | 2020 | BJD | 729 | 243 | ES | ES | Diagnosis |
| 2 | Cutaneous reactions reported after Moderna and Pfizer COVID-19 vaccination: A registry-based study of 414 cases | McMahon, Devon | Freeman, Esther | 2021 | JAAD | 439 | 220 | USA | USA | Treatment |
| 3 | Incidence Estimate of Nonmelanoma Skin Cancer (Keratinocyte Carcinomas) in the US Population, 2012 | Rogers, Howard  | Coldiron, Brett | 2015 | JAMA | 981 | 123 | USA | USA | Epidemiology |
| 4 | Cutaneous reactions after SARS-CoV-2 vaccination: a cross-sectional Spanish nationwide study of 405 cases | Catala, Alba | Guilabert, Antonio | 2022 | BJD | 116 | 116 | ES | ES | Treatment |
| 5 | Guidelines of care for the management of acne vulgaris | Zaenglein, Andrea  | Bhushan, Reva | 2016 | JAAD | 674 | 96 | USA | USA | Treatment |
| 6 | Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with biologics | Menter, Alan | Elmets, Craig | 2019 | JAAD | 374 | 94 | USA | USA | Treatment |
| 7 | SARS-CoV-2 endothelial infection causes COVID-19 chilblains: histopathological, immunohistochemical and ultrastructural study of seven paediatric cases | Colmenero, Isabel | Torrelo, Antonio | 2020 | BJD | 276 | 92 | ES | ES | Diagnosis |
| 8 | Consensus-based European guidelines for treatment of atopic eczema (atopic dermatitis) in adults and children: part I | Wollenberg, Andreas | Ring, Johannes | 2018 | JEADV | 456 | 91 | DE | DE | Treatment |
| 9 | Efficacy and safety of guselkumab, an anti-interleukin-23 monoclonal antibody, compared with adalimumab for the continuous treatment of patients with moderate to severe psoriasis: Results from the phase III, double-blinded, placebo- and active comparatore-controlled VOYAGE 1 trial | Blauvelt, Andrew | Kimball, Alexandra | 2017 | JAAD | 506 | 84 | USA | USA | Treatment |
| 10 | Deucravacitinib versus placebo and apremilast in moderate to severe plaque psoriasis: Efficacy and safety results from the 52-week, randomized, double-blinded, placebo-controlled phase 3 POETYK PSO-1 trial | Armstrong, April | Blauvelt, Andrew | 2023 | JAAD | 28 | 84 | USA | USA | Treatment |
| 11 | Early ultrasound for diagnosis and treatment of vascular adverse events with hyaluronic acid fillers | Schelke, Leonie | Swift, Arthur | 2023 | JAAD | 28 | 84 | CHR | CA | Diagnosis |
| 12 | The Global Burden of Skin Disease in 2010: An Analysis of the Prevalence and Impact of Skin Conditions | Hay, Roderick J. | Naghavi, Moshen | 2014 | JID | 754 | 84 | GB | USA | Epidemiology |
| 13 | Guidelines of care for the management of atopic dermatitis Section 2. Management and treatment of atopic dermatitis with topical therapies | Eichenfield, Lawrence F | Sidbury, Robert | 2014 | JAAD | 742 | 82 | USA | USA | Treatment |
| 14 | The International Criteria for Behcet's Disease (ICBD): a collaborative study of 27 countries on the sensitivity and specificity of the new criteria | Davatchi, Fereydoun | Ziaei, Neda | 2014 | JEADV | 726 | 81 | IRAN | IRAN | Diagnosis |
| 15 | European S1 guideline for the treatment of hidradenitis suppurativa/acne inversa | Zouboulis, christoff | Jemec, Gregor Borut | 2015 | JEADV | 618 | 77 | DE | DK | Treatment |
| 16 | Further characterization of clinical and laboratory features in VEXAS syndrome: large-scale analysis of a multicentre case series of 116 French patients | Georgin-Lavialle, Sophie | Mekinian, Arsene | 2022 | BJD | 73 | 73 | FR | FR | Diagnosis |
| 17 | Guidelines of care for the management of atopic dermatitis Section 1. Diagnosis and assessment of atopic dermatitis | Eichenfield, Lawrence F | Sidbury, Robert | 2014 | JAAD | 655 | 73 | USA | USA | Treatment |
| 18 | Efficacy and safety of guselkumab, an anti-interleukin-23 monoclonal antibody, compared with adalimumab for the treatment of patients with moderate to severe psoriasis with randomized withdrawal and retreatment: Results from the phase III, double-blind, placebo- and active comparatore-controlled VOYAGE 2 trial | Reich, Kristian | Gordon, Kenneth | 2017 | JAAD | 427 | 71 | DE | USA | Treatment |
| 19 | Clinical and pathologic correlation of cutaneous COVID-19 vaccine reactions including V-REPP: A registry-based study | McMahon, Devon | Freeman, Esther | 2022 | JAAD | 68 | 68 | USA | USA | Diagnosis |
| 20 | The spectrum of COVID-19-associated dermatologic manifestations: An international registry of 716 patients from 31 countries | Freeman, Esther | Fox, Lindy | 2020 | JAAD | 200 | 67 | USA | USA | Diagnosis |
| 21 | Monkeypox outbreak in Spain: clinical and epidemiological findings in a prospective cross-sectional study of 185 cases | Catala, Alba | Fuertes, Irene | 2022 | BJD | 66 | 66 | ES | ES | Epidemiology |
| 22 | Efficacy and Safety of Dupilumab in Adolescents With Uncontrolled Moderate to Severe Atopic Dermatitis A Phase 3 Randomized Clinical Trial | Simpson, Eric | Bansal, Ashish | 2020 | JAMA | 197 | 66 | USA | USA | Treatment |
| 23 | Consensus-based European guidelines for treatment of atopic eczema (atopic dermatitis) in adults and children: partII | Wollenberg, Andreas | Ring, Johannes | 2018 | JEADV | 319 | 64 | DE | DE | Treatment |
| 24 | Guidelines of care for the management of primary cutaneous melanoma | Swetter, Susan | Lamina, Toyin | 2019 | JAAD | 255 | 64 | USA | USA | Treatment |
| 25 | Cutaneous squamous cell carcinoma Incidence, risk factors, diagnosis, and staging | Que, Syril Keena | Schmults, Chrysalyne | 2018 | JAAD | 318 | 64 | USA | USA | Epidemiology |
| 26 | Baricitinib in patients with moderate-to-severe atopic dermatitis and inadequate response to topical corticosteroids: results from two randomized monotherapy phaseIIItrials | Simpson, Eric | Reich, Kristian | 2020 | BJD | 190 | 63 | USA | DE | Treatment |
| 27 | Association of Vitiligo With Tumor Response in Patients With Metastatic Melanoma Treated With Pembrolizumab | Hua, Camille | Robert, Caroline | 2016 | JAMA | 431 | 62 | FR | FR | Treatment |
| 28 | Psoriasis prevalence among adults in the United States | Rachakonda, Tara D | Armstrong, April W | 2014 | JAAD | 542 | 60 | USA | USA | Epidemiology |
| 29 | The Psychological Burden of Skin Diseases: A Cross-Sectional Multicenter Study among Dermatological Out-Patients in 13 European Countries | Dalgard, Florence  | Kupfer, Joerg | 2015 | JID | 477 | 60 | NO | DE | Epidemiology |
| 30 | Efficacy and Safety of Upadacitinib vs Dupilumab in Adults With Moderate-to-Severe Atopic Dermatitis A Randomized Clinical Trial | Blauvelt, Andrew | Eyerich, Kilian | 2021 | JAMA | 119 | 60 | USA | DE | Treatment |
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| 32 | Classification of the Clinical Images for Benign and Malignant Cutaneous Tumors Using a Deep Learning Algorithm | Han, Seung Seog |  Chang, Sung Eun | 2018 | JID | 281 | 56 | KR | KR | Diagnosis |
| 33 | Dupilumab with concomitant topical corticosteroid treatment in adults with atopic dermatitis with an inadequate response or intolerance to ciclosporin A or when this treatment is medically inadvisable: a placebo-controlled, randomized phase III clinical trial (LIBERTY AD CAFE) | de Bruin-Weller, Marjolein |  Shumel, Brad | 2018 | BJD | 275 | 55 | NL | USA | Treatment |
| 34 | Global Burden of Cutaneous Melanoma in 2020 and Projections to 2040 | Arnold, Melina | Bray, Freddie | 2022 | JAMA | 54 | 54 | FR | FR | Epidemiology |
| 35 | Efficacy and Safety of Lebrikizumab, a High-Affinity Interleukin 13 Inhibitor, in Adults With Moderate to Severe Atopic Dermatitis A Phase 2b Randomized Clinical Trial | Guttman-Yassky, Emma | Simpson, Eric | 2020 | JAMA | 158 | 53 | USA | USA | Treatment |
| 36 | Conjunctivitis in dupilumab clinical trials | Akinlade, Bolanle | Wollenberg, Andreas | 2019 | BJD | 207 | 52 | USA | DE | Treatment |
| 37 | Efficacy and Safety of Abrocitinib in Patients With Moderate-to-Severe Atopic Dermatitis A Randomized Clinical Trial | Silverberg, Jonathan |  Rojo, Ricardo | 2020 | JAMA | 154 | 51 | USA | USA | Treatment |
| 38 | Secukinumab is superior to ustekinumab in clearing skin of subjects with moderate to severe plaque psoriasis: CLEAR, a randomized controlled trial | Thaci, Diamant | Milutinovic, Marina | 2015 | JAAD | 406 | 51 | DE | CH | Treatment |
| 39 | Merkel cell carcinoma: Current US incidence and projected increases based on changing demographics | Paulson, Kelly |  Nghiem, Paul | 2018 | JAAD | 253 | 51 | USA | USA | Epidemiology |
| 40 | Cutaneous squamous cell carcinoma: Estimated incidence of disease, nodal metastasis, and deaths from disease in the United States, 2012 | Karia, Pritesh | Schmults, Chrysalyne | 2013 | JAAD | 506 | 51 | USA | USA | Epidemiology |
| 41 | Tralokinumab for moderate-to-severe atopic dermatitis: results from two 52-week, randomized, double-blind, multicentre, placebo-controlled phase III trials (ECZTRA 1 and ECZTRA 2) | Wollenberg, Andreas |  Simpson, Eric | 2020 | BJD | 149 | 50 | DE | USA | Treatment |
| 42 | The Growing Burden of Invasive Melanoma: Projections of Incidence Rates and Numbers of New Cases in Six Susceptible Populations through 2031 | Whiteman, David | Olsen, Catherine  | 2016 | JID | 346 | 49 | AU | AU | Epidemiology |
| 43 | Tralokinumab plus topical corticosteroids for the treatment of moderate-to-severe atopic dermatitis: results from the double-blind, randomized, multicentre, placebo-controlled phase III ECZTRA 3 trial | Silverberg, Jonathan | Weidinger, Stephan | 2021 | BJD | 98 | 49 | USA | DE | Treatment |
| 44 | Diagnosis and management of pemphigus: Recommendations of an international panel of experts | Murrell, Dedee | Werth, Victoria | 2020 | JAAD | 144 | 48 | AU | USA | Medical education |
| 45 | Baricitinib in adult patients with moderate-to-severe atopic dermatitis: A phase 2 parallel, double-blinded, randomized placebo-controlled multiple-dose study | Guttman-Yassky, Emma | Simpson, Eric | 2019 | JAAD | 192 | 48 | USA | USA | Treatment |
| 46 | Drug reaction with eosinophilia and systemic symptoms (DRESS): an original multisystem adverse drug reaction. Results from the prospective RegiSCAR study |  Kardaun, Sylvia | Roujeau, Jean-Claude | 2013 | BJD | 480 | 48 | Netherlands | DE | Medical education |
| 47 | Global Skin Disease Morbidity and Mortality An Update From the Global Burden of Disease Study 2013 | Karimkhani, Chante | Naghavi, Mohsen | 2017 | JAMA | 285 | 48 | USA | USA | Epidemiology |
| 48 | Apremilast, an oral phosphodiesterase 4 (PDE4) inhibitor, in patients with moderate to severe plaque psoriasis: Results of a phase III, randomized, controlled trial (Efficacy and Safety Trial Evaluating the Effects of Apremilast in Psoriasis [ESTEEM] 1) | Papp, Kim | Griffiths, Christopher  | 2015 | JAAD | 378 | 47 | CA | GB | Treatment |
| 49 | Efficacy and safety of crisaborole ointment, a novel, nonsteroidal phosphodiesterase 4 (PDE4) inhibitor for the topical treatment of atopic dermatitis (AD) in children and adults | Paller, Amy  | Hebert, Adelaide | 2016 | JAAD | 325 | 46 | USA | USA | Treatment |
| 50 | Comorbidity screening in hidradenitis suppurativa: Evidence-based recommendations from the US and Canadian Hidradenitis Suppurativa Foundations | Garg, Amit | Naik, Haley | 2022 | JAAD | 46 | 46 | USA | USA | Epidemiology |
| 51 | Delayed Localized Hypersensitivity Reactions to the Moderna COVID-19 Vaccine A Case Series | Johnston, Margaret | Little, Alicia | 2021 | JAMA | 92 | 46 | USA | USA | Treatment |
| 52 | Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with awareness and attention to comorbidities | Elmets, Craig  |  Menter, Alan | 2019 | JAAD | 182 | 46 | USA | USA | Treatment |
| 53 | A prospective phase III, randomized, double-blind, placebo-controlled study of brodalumab in patients with moderate-to-severe plaque psoriasis | Papp, Kim | Nirula, Ajay | 2016 | BJD | 316 | 45 | CA | USA | Treatment |
| 54 | Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection is likely to be androgen mediated | Wambier, Carlos Gustavo |  Goren, Andy | 2020 | JAAD | 134 | 45 | USA | USA | Pathogenesis |
| 55 | The global burden of melanoma: results from the Global Burden of Disease Study 2015 | Karimkhani, Chante | Fitzmaurice, Christina | 2017 | BJD | 260 | 43 | USA | USA | Epidemiology |
| 56 | Efficacy and safety of dupilumab with concomitant topical corticosteroids in children 6 to 11 years old with severe atopic dermatitis: A randomized, double-blinded, placebo-controlled phase 3 trial | Paller, Amy | Shumel, Brad | 2020 | JAAD | 129 | 43 | USA | USA | Treatment |
| 57 | Eczema Prevalence in the United States: Data from the 2003 National Survey of Children's Health | Shaw, Tatyana E | Simpson, Eric L. | 2011 | JID | 515 | 43 | USA | USA | Epidemiology |
| 58 | Atopic Dermatitis Is an IL-13-Dominant Disease with Greater Molecular Heterogeneity Compared to Psoriasis | Tsoi, Lam | Weidinger, Stephan | 2019 | JID | 170 | 43 | USA | DE | Basic science |
| 59 | Atopic Dermatitis in America Study: A Cross-Sectional Study Examining the Prevalence and Disease Burden of Atopic Dermatitis in the US Adult Population | Fuxench, Zelma | Ong, Peck | 2019 | JID | 169 | 42 | USA | USA | Epidemiology |
| 60 | Pernio-like skin lesions associated with COVID-19: A case series of 318 patients from 8 countries | Freeman, Esther | Fox, Lindy  | 2020 | JAAD | 126 | 42 | USA | USA | Diagnosis |
| 61 | Spatial and Single-Cell Transcriptional Profiling Identifies Functionally Distinct Human Dermal Fibroblast Subpopulations | Philippeos, Christina | Watt, Fiona | 2018 | JID | 207 | 41 | GB | GB | Basic science |
| 62 | Patient perspectives in the management of psoriasis: Results from the population-based Multinational Assessment of Psoriasis and Psoriatic Arthritis Survey | Lebwohl, Mark | vandeKerkhof, Peter | 2014 | JAAD | 361 | 40 | USA | Netherlands | Epidemiology |
| 63 | Propionibacterium acnes Strain Populations in the Human Skin Microbiome Associated with Acne | Fitz-Gibbon, Sorel | Li, Huiying | 2013 | JID | 400 | 40 | USA | USA | Basic science |
| 64 | Increasing Comorbidities Suggest that Atopic Dermatitis Is a Systemic Disorder | Brunner, Patrick  | Stingl, Georg | 2017 | JID | 237 | 40 | USA | AT | Basic science |
| 65 | ETFAD/EADV Eczema task force 2015 position paper on diagnosis and treatment of atopic dermatitis in adult and paediatric patients | Wollenberg, Anja | Darsow, Ulf | 2016 | JEADV | 276 | 39 | DE | DE | Treatment |
| 66 | Wound healing and treating wounds Chronic wound care and management | Powers, Jennifer | Phillips, Tania  | 2016 | JAAD | 276 | 39 | USA | USA | Treatment |
| 67 | Efficacy and safety of lebrikizumab (an anti-IL-13 monoclonal antibody) in adults with moderate-to-severe atopic dermatitis inadequately controlled by topical corticosteroids: A randomized, placebo-controlled phase II trial (TREBLE) | Simpson, Eric | Omachi, Theodore | 2018 | JAAD | 197 | 39 | USA | USA | Treatment |
| 68 | European S3-Guidelines on the systemic treatment of psoriasis vulgaris - Update 2015-Short version - EDF in cooperation with EADV and IPC | Nast, Alexander | Yawalkar, Nikhil | 2015 | JEADV | 315 | 39 | DE | CH | Treatment |
| 69 | Diagnostic Criteria of Ulcerative Pyoderma Gangrenosum A Delphi Consensus of International Experts | Maverakis, Emanual | Cheng, Michelle | 2018 | JAMA | 196 | 39 | USA | USA | Diagnosis |
| 70 | The burden of skin disease in the United States | Lim, Henry  | Moyano, Jose  | 2017 | JAAD | 235 | 39 | USA | USA | Epidemiology |
| 71 | Delgocitinib ointment, a topical Janus kinase inhibitor, in adult patients with moderate to severe atopic dermatitis: A phase 3, randomized, double-blind, vehicle-controlled study and an open-label, long-term extension study | Nakagawa, Hidemi | Nagata, Takeshi | 2020 | JAAD | 117 | 39 | JP | JP | Treatment |
| 72 | Tezepelumab, an anti-thymic stromal lymphopoietin monoclonal antibody, in the treatment of moderate to severe atopic dermatitis: A randomized phase 2a clinical trial | Simpson, Eric | van der Merwe, Rene | 2019 | JAAD | 156 | 39 | USA | GB | Treatment |
| 73 | Risk Factors for Cutaneous Squamous Cell Carcinoma Recurrence, Metastasis, and Disease-Specific Death A Systematic Review and Meta-analysis | Thompson, Agnieszka | Baum, Christian | 2016 | JAMA | 272 | 39 | USA | USA | Epidemiology |
| 74 | Disease characteristics, clinical evaluation, and new perspectives on pathogenesis | Strazzulla, Lauren | Shapiro, Jerry | 2018 | JAAD | 194 | 39 | USA | USA | Pathogenesis |
| 75 | Safety, efficacy and drug survival of biologics and biosimilars for moderate-to-severe plaque psoriasis | Egeberg, Alexander | Skov, Lone | 2018 | BJD | 194 | 39 | DK | DK | Treatment |
| 76 | Dermatomyositis: Clinical features and pathogenesis | DeWane, Madeline |  Lu, Jun | 2020 | JAAD | 116 | 39 | USA | USA | Medical education |
| 77 | Guidelines of care for the management of cutaneous squamous cell carcinoma | Alam, Murad | Rodgers, Phillip | 2018 | JAAD | 188 | 38 | USA | USA | Treatment |
| 78 | Topical tofacitinib for atopic dermatitis: a phase IIa randomized trial | Bissonnette, Robert | Ports, William | 2016 | BJD | 263 | 38 | CA | USA | Treatment |
| 79 | Pembrolizumab Cutaneous Adverse Events and Their Association With Disease Progression | Sanlorenzo, Martina | Ortiz-Urda, Susana | 2015 | JAMA | 297 | 37 | USA | USA | Treatment |
| 80 | Integrative Responses to IL-17 and TNF-alpha in Human Keratinocytes Account for Key Inflammatory Pathogenic Circuits in Psoriasis | Chiricozzi, Andrea | Krueger, James G | 2011 | JID | 445 | 37 | USA | USA | Pathogenesis |
| 81 | Joint AADeNPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures | Elmets, Craig | Menter, Alan | 2021 | JAAD | 74 | 37 | USA | USA | Treatment |
| 82 | Secukinumab is superior to ustekinumab in clearing skin of subjects with moderate-to-severe plaque psoriasis up to 1 year: Results from the CLEAR study | Blauvelt, Andrew | Thaci, Diamant | 2017 | JAAD | 219 | 37 | USA | DE | Treatment |
| 83 | Guidelines of care for the management of basal cell carcinoma | Bichakjian, Christopher | Rodgers, Phillip | 2018 | JAAD | 182 | 36 | USA | USA | Treatment |
| 84 | Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies | Menter, Alan | Elmets, Craig  | 2020 | JAAD | 109 | 36 | USA | USA | Treatment |
| 85 | A first prospective randomized controlled trial to decrease bacterial load using cold atmospheric argon plasma on chronic wounds in patients | Isbary, G | Stolz, Wilhelm | 2010 | BJD | 467 | 36 | DE | DE | Treatment |
| 86 | Efficacy and safety of apremilast, an oral phosphodiesterase 4 inhibitor, in patients with moderate-to-severe plaque psoriasis over 52 weeks: a phase III, randomized controlled trial (ESTEEM 2) | Paul, Carle | Gottlieb, Andrea barrocas | 2015 | BJD | 287 | 36 | FR | USA | Treatment |
| 87 | Efficacy and Safety of Baricitinib Combined With Topical Corticosteroids for Treatment of Moderate to Severe Atopic Dermatitis A Randomized Clinical Trial | Reich, Kristian | Simpson, Eric | 2020 | JAMA | 107 | 36 | DE | USA | Treatment |
| 88 | Circulating Th17, Th22, and Th1 Cells Are Increased in Psoriasis | Kagami, Shinji | Blauvelt, Andrew | 2010 | JID | 463 | 36 | JPN | USA | Basic science |
| 89 | Efficacy and safety of fezakinumab (an IL-22 monoclonal antibody) in adults with moderate-to-severe atopic dermatitis inadequately controlled by conventional treatments: A randomized, double-blind, phase 2a trial | Guttman-Yassky, Emma | Lebwohl, Mark | 2018 | JAAD | 178 | 36 | USA | USA | Treatment |
| 90 | Increasing Burden of Melanoma in the United States | Linos, Eleni | Clarke, Christina A | 2009 | JID | 498 | 36 | USA | USA | Epidemiology |
| 91 | Efficacy and safety of ruxolitinib cream for the treatment of atopic dermatitis: Results from 2 phase 3, randomized, double-blind studies | Papp, Kim | Simpson, Eric | 2021 | JAAD | 71 | 36 | CA | USA | Treatment |
| 92 | ETFAD/EADV Eczema task force 2020 position paper on diagnosis and treatment of atopic dermatitis in adults and children | Wollenberg, Andreas | Ring, Johannes | 2020 | JEADV | 106 | 35 | DE | DE | Medical education |
| 93 | Dupilumab shows long-term safety and efficacy in patients with moderate to severe atopic dermatitis enrolled in a phase 3 open-label extension study | Deleuran, Mette | Ardeleanu, Marius | 2020 | JAAD | 104 | 35 | DK | USA | Treatment |
| 94 | Comparison of Biologics and Oral Treatments for Plaque Psoriasis A Meta-analysis | Armstrong, April | Augustin, Matthias | 2020 | JAMA | 103 | 34 | USA | DE | Treatment |
| 95 | Deep-learning-based, computer-aided classifier developed with a small dataset of clinical images surpasses board-certified dermatologists in skin tumour diagnosis | Fujisawa, Yasuhiro | Fujimoto, Manabu | 2019 | BJD | 137 | 34 | JP | JP | Diagnosis |
| 96 | Revised nomenclature and classification of inherited ichthyoses: Results of the First Ichthyosis Consensus Conference in Soreze 2009 | Oji, Vinzenz | Traupe, Heiko | 2010 | JAAD | 444 | 34 | DE | DE | Diagnosis |
| 97 | Differential Drug Survival of Biologic Therapies for the Treatment of Psoriasis: A Prospective Observational Cohort Study from the British Association of Dermatologists Biologic Interventions Register (BADBIR) | Warren, Richard  | Griffiths, Christopher  | 2015 | JID | 273 | 34 | GB | GB | Treatment |
| 98 | Factors Predictive of Recurrence and Death From Cutaneous Squamous Cell Carcinoma A 10-Year, Single-Institution Cohort Study | Schmults, Chrysalyne | Quershi, Abrar | 2013 | JAMA | 341 | 34 | USA | USA | Epidemiology |
| 99 | North American clinical management guidelines for hidradenitis suppurativa: A publication from the United States and Canadian Hidradenitis Suppurativa Foundations Part I: Diagnosis, evaluation, and the use of complementary and procedural management | Alikhan, Ali | Poulin, Yves | 2019 | JAAD | 135 | 34 | USA | Ca | Treatment |
| 100 | Chilblain-like acral lesions during the COVID-19 pandemic (COVID): Histologic, immunofluorescence, and immunohistochemical study of 17 cases | Kanitakis, Jean | Jullien, Denis | 2020 | JAAD | 101 | 34 | FR | FR | Diagnosis |
| 101 | Psoriasis Severity and the Prevalence of Major Medical Comorbidity A Population-Based Study | Yeung, Howa | Gelfand, Joel | 2013 | JAMA | 335 | 34 | USA | USA | Epidemiology |
| 102 | Development and validation of the International Hidradenitis Suppurativa Severity Score System (IHS4), a novel dynamic scoring system to assess HS severity | Zouboulis, christoff | Sabat, Renata | 2017 | BJD | 200 | 33 | DE | DE | Diagnosis |
| 103 | Epidemiology, clinical presentation, and pathogenesis | Goldburg, Samantha | Payette, Michael  | 2020 | JAAD | 99 | 33 | USA | USA | Medical education |
| 104 | Hand hygiene during COVID-19: Recommendations from the American Contact Dermatitis Society | Rundle, Chandler |  Dunnick, Cory  | 2020 | JAAD | 99 | 33 | USA | USA | Medical education |
| 105 | Melanocytes Sense Blue Light and Regulate Pigmentation through Opsin-3 | Regazzetti, Claire |  Passeron, Thierry | 2018 | JID | 165 | 33 | FR | FR | Basic science |
| 106 | Secukinumab long-term safety experience: A pooled analysis of 10 phase II and III clinical studies in patients with moderate to severe plaque psoriasis | van de Kerkhof, Peter  | Fox, Todd | 2016 | JAAD | 227 | 32 | NL | CH | Treatment |
| 107 | The Genetics of Chronic Itch: Gene Expression in the Skin of Patients with Atopic Dermatitis and Psoriasis with Severe Itch | Nattkemper, Leigh | Yosipovitch, Gil | 2018 | JID | 161 | 32 | USA | USA | Pathogenesis |
| 108 | Onychomycosis Clinical overview and diagnosis | Lipner, Shari  |  Scher, Richard | 2019 | JAAD | 128 | 32 | USA | USA | Medical education |
| 109 | 2021 European guideline on the management of Mycoplasma genitalium infections | Jensen, Jorgen | Unemo, Magnus | 2022 | JEADV | 31 | 31 | DK | SWEDEN | Treatment |
| 110 | The global burden of atopic dermatitis: lessons from the Global Burden of Disease Study 1990-2017 | Laughter, Melissa | Flohr, Carsten | 2020 | BJD | 93 | 31 | USA | NL | Epidemiology |
| 111 | Evaluation of Chilblains as a Manifestation of the COVID-19 Pandemic | Herman, Anne |  Baeck, Marie | 2020 | JAMA | 93 | 31 | BE | BE | Diagnosis |
| 112 | Secukinumab administration by pre-filled syringe: efficacy, safety and usability results from a randomized controlled trial in psoriasis (FEATURE) | Blauvelt, Andrew | Cooper, S. | 2015 | BJD | 248 | 31 | USA | USA | Treatment |
| 113 | Prevalence of rheumatologist-diagnosed psoriatic arthritis in patients with psoriasis in European/North American dermatology clinics | Mease, Phillip | Alvarez, Daniel | 2013 | JAAD | 310 | 31 | USA | USA | Epidemiology |
| 114 | Sex- and Age-Adjusted Population Analysis of Prevalence Estimates for Hidradenitis Suppurativa in the United States | Garg, Amit | Strunk, Andrew | 2017 | JAMA | 185 | 31 | USA | USA | Epidemiology |
| 115 | Hydrochlorothiazide use and risk of nonmelanoma skin cancer: A nationwide case-control study from Denmark | Pedersen, Sidsel Arnspang | Pottegard, Anton | 2018 | JAAD | 154 | 31 | DK | DK | Epidemiology |
| 116 | Efficacy and Safety of Oral Janus Kinase 1 Inhibitor Abrocitinib for Patients With Atopic Dermatitis A Phase 2 Randomized Clinical Trial | Gooderham, Melinda |  Peeva, Elena | 2019 | JAMA | 123 | 31 | CA | USA | Treatment |
| 117 | Basal cell carcinoma Epidemiology; pathophysiology; clinical and histological subtypes; and disease associations | Cameron, Michael | Rossi, Anthony  | 2019 | JAAD | 123 | 31 | USA | USA | Epidemiology |
| 118 | SFRP2/DPP4 and FMO1/LSP1 Define Major Fibroblast Populations in Human Skin | Tabib, Tracy |  Lafyatis, Robert | 2018 | JID | 152 | 30 | USA | USA | Basic science |
| 119 | Evaluating patients' unmet needs in hidradenitis suppurativa: Results from the Global Survey Of Impact and Healthcare Needs (VOICE) Project | Garg, Amit | Strunk, Andrew | 2020 | JAAD | 91 | 30 | USA | USA | Epidemiology |
| 120 | Vitiligo: A comprehensive overview Part I. Introduction, epidemiology, quality of life, diagnosis, differential diagnosis, associations, histopathology, etiology, and work-up | Alikhan, Ali | Petronic-Rosic, Vesna | 2011 | JAAD | 363 | 30 | USA | USA | Medical education  |
| 121 | Characterization of Innate Lymphoid Cells in Human Skin and Blood Demonstrates Increase of NKp44+ILC3 in Psoriasis | Villanova, Federica | Nestle, Frank | 2014 | Jid | 271 | 30 | GB | GB | Basic science |
| 122 | Treatments and outcomes of generalized pustular psoriasis: A cohort of 1516 patients in a nationwide inpatient database in Japan | Miyachi, Hideaki | Yasunaga, Hideo | 2022 | JAAD | 30 | 30 | JP | JP | Treatment |
| 123 | Results of the 2016 International Skin Imaging Collaboration International Symposium on Biomedical Imaging challenge: Comparison of the accuracy of computer algorithms to dermatologists for the diagnosis of melanoma from dermoscopic images | Marchetti, Michael | Halpern, Allan | 2018 | JAAD | 150 | 30 | USA | USA | Diagnosis |
| 124 | New discoveries in the pathogenesis and classification of vitiligo | Rodrigues, Michelle | Harris, John | 2017 | JAAD | 180 | 30 | AU | USA | Medical education |
| 125 | Effectiveness and safety of dupilumab for the treatment of atopic dermatitis in a real-life French multicenter adult cohort | Faiz, Sarah | Staumont-Salle, Delphine | 2019 | JAAD | 119 | 30 | FR | FR | Treatment |
| 126 | A clinical, histopathological and laboratory study of 19 consecutive Italian paediatric patients with chilblain-like lesions: lights and shadows on the relationship with COVID-19 infection | El Hachem, Maya |  Alaggio, Rita | 2020 | JEADV | 89 | 30 | IT | IT | Pathogenesis |
| 127 | North American clinical management guidelines for hidradenitis suppurativa: A publication from the United States and Canadian Hidradenitis Suppurativa Foundations Part II: Topical, intralesional, and systemic medical management | Alikhan, Ali | Poulin, Yves | 2019 | JAAD | 118 | 30 | USA | CA | Treatment |
| 128 | Sleep Disturbances in Adults with Eczema Are Associated with Impaired Overall Health: A US Population-Based Study | Silverberg, Jonathan  | Zee, Phyllis | 2015 | JID | 235 | 29 | USA | USA | Pathogenesis |
| 129 | Patient burden of moderate to severe atopic dermatitis (AD): Insights from a phase 2b clinical trial of dupilumab in adults | Simpson, Eric | Mastey, Vera | 2016 | JAAD | 205 | 29 | USA | USA | Epidemiology |
| 130 | Long-term safety of ustekinumab in patients with moderate-to-severe psoriasis: final results from 5 years of follow-up | Papp, Kim | Reich, Kristian | 2013 | BJD | 291 | 29 | CANADA | DE | Treatment |
| 131 | The mucocutaneous and systemic phenotype of dermatomyositis patients with antibodies to MDA5 (CADM-140): A retrospective study | Fiorentino, David | Casciola-Rosen, Livia | 2011 | JAAD | 347 | 29 | USA | USA | Pathogenesis |
| 132 | Efficacy and safety of secukinumab in the treatment of moderate-to-severe plaque psoriasis: a randomized, double-blind, placebo-controlled phase II dose-ranging study | Papp, Kim | Richards, Hano | 2013 | BJD | 289 | 29 | CANADA | Switzerland | Treatment |
| 133 | 2014 European guideline on the management of syphilis | Janier, Michel | Patel, Rajul | 2014 | Jeadv | 259 | 29 | FRANCE | GB | Treatment |
| 134 | Impact of Secukinumab on Endothelial Dysfunction and Other Cardiovascular Disease Parameters in Psoriasis Patients over 52 Weeks | von Stebut, Esther | Gori, Tommaso | 2019 | JID | 115 | 29 | DE | DE | Treatment |
| 135 | Basal cell carcinoma Basal cell carcinoma Contemporary approaches to diagnosis, treatment, and prevention | Cameron, Michael  | Rossi, Anthony | 2019 | JAAD | 115 | 29 | USA | USA | Medical education |
| 136 | Risk of Serious Infection With Biologic and Systemic Treatment of Psoriasis Results From the Psoriasis Longitudinal Assessment and Registry (PSOLAR) | Kalb, Robert  | Leonardi, Craig  | 2015 | JAMA | 230 | 29 | USA | USA | Treatment |
| 137 | Guidelines of care for the management of psoriasis and psoriatic arthritis | Menter, Alan | Bhushan, Reva | 2011 | JAAD | 345 | 29 | USA | USA | Treatment |
| 138 | Successful and safe use of 2 min cold atmospheric argon plasma in chronic wounds: results of a randomized controlled trial | Isbary, Georg | Wilhelm Stolz | 2012 | BJD | 316 | 29 | DE | DE | Treatment |
| 139 | Dupilumab in adolescents with uncontrolled moderate-to-severe atopic dermatitis: results from a phase IIa open-label trial and subsequent phase III open-label extension | Cork, Michael | Bansal, Ashish | 2020 | BJD | 86 | 29 | GB | USA | Treatment |
| 140 | Updated S2K guidelines on the management of pemphigus vulgaris and foliaceus initiated by the european academy of dermatology and venereology (EADV) | Joly, Pascal |  Schmidt, Enno | 2020 | JEADV | 86 | 29 | FR | DE | Treatment |
| 141 | The Follicular Skin Microbiome in Patients With Hidradenitis Suppurativa and Healthy Controls | Ring, Hans Christian | Jemec, Gregor Borut | 2017 | JAMA | 171 | 29 | DK | DK | Basic science |
| 142 | Efficacy, safety and usability of secukinumab administration by autoinjector/pen in psoriasis: a randomized, controlled trial (JUNCTURE) | Paul, Carle | Papavassilis, Charis | 2015 | JEADV | 228 | 29 | FR | CH | Treatment |
| 143 | Age-Specific Incidence of Melanoma in the United States | Paulson, Kelly | Gardner, Jennifer | 2020 | JAMA | 85 | 28 | USA | USA | Epidemiology |
| 144 | Onychomycosis Treatment and prevention of recurrence | Lipner, Shar | Scher, Richard | 2019 | JAAD | 113 | 28 | USA | USA | Medical education |
| 145 | Cutaneous adverse events (AEs) of anti-programmed cell death (PD)-1 therapy in patients with metastatic melanoma: A single-institution cohort | Hwang, Shelley Ji Eun | Fernandez-Penas, Pablo | 2016 | JAAD | 197 | 28 | AU | AU | Treatment |
| 146 | Expert-Level Diagnosis of Nonpigmented Skin Cancer by Combined Convolutional Neural Networks | Tschandl, Philipp | Kittler, Harald | 2019 | JAMA | 112 | 28 | AT | AT | Diagnosis |
| 147 | Systemic Immunomodulating Therapies for Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis A Systematic Review and Meta-analysis | Zimmermann, Stefanie | Mockenhaupt, Maja | 2017 | JAMA | 168 | 28 | DE | DE | Treatment |
| 148 | Undertreatment, Treatment Trends, and Treatment Dissatisfaction Among Patients With Psoriasis and Psoriatic Arthritis in the United States Findings From the National Psoriasis Foundation Surveys, 2003-2011 | Armstrong, April | Lebwohl, Mark | 2013 | JAMA | 280 | 28 | USA | USA | Treatment |
| 149 | Prevalence of Metabolic Syndrome in Patients with Psoriasis: A Population-Based Study in the United Kingdom | Langan, Sinead | Gelfand, Joel | 2012 | JID | 308 | 28 | GB | USA | Epidemiology |
| 150 | Transcriptome Analysis of Psoriasis in a Large Case-Control Sample: RNA-Seq Provides Insights into Disease Mechanisms | Li, Bing | Elder, James | 2014 | Jid | 248 | 28 | USA | USA | Basic science |
| 151 | Association Between Surgical Skin Markings in Dermoscopic Images and Diagnostic Performance of a Deep Learning Convolutional Neural Network for Melanoma Recognition | Winkler, Julia | Haenssle, Holger | 2019 | JAMA | 110 | 28 | DE | DE | Diagnosis |
| 152 | Pathologic nodal evaluation improves prognostic accuracy in Merkel cell carcinoma: Analysis of 5823 cases as the basis of the first consensus staging system | Lemos, Bianca D | Nghiem, Paul | 2010 | JAAD | 354 | 27 | USA | USA | Treatment |
| 153 | Skin Microbiome Surveys Are Strongly Influenced by Experimental Design | Meisel, Jacquelyn | Grice, Elizabeth | 2016 | JID | 190 | 27 | USA | USA | Basic science |
| 154 | Peak Pruritus Numerical Rating Scale: psychometric validation and responder definition for assessing itch in moderate-to-severe atopic dermatitis | Yosipovitch, Gil | Gadkari, Abhijit | 2019 | BJD | 108 | 27 | USA | USA | Diagnosis |
| 155 | Tofacitinib for the treatment of severe alopecia areata and variants: A study of 90 patients | Liu, Lucy  | King, Brett  | 2017 | JAAD | 162 | 27 | USA | USA | Treatment |
| 156 | Comparison of long-term drug survival and safety of biologic agents in patients with psoriasis vulgaris | Gniadecki, Robert | Skov, Lone | 2015 | BJD | 213 | 27 | DK | DK | Treatment |
| 157 | A MicroRNA-29 Mimic (Remlarsen) Represses Extracellular Matrix Expression and Fibroplasia in the Skin | Gallant-Behm, Corrie | Marshall, William  | 2019 | JID | 106 | 27 | USA | USA | Basic science |
| 158 | Pressure ulcers: Pathophysiology, epidemiology, risk factors, and presentation | Mervis, Joshua  | Phillips, Tania  | 2019 | JAAD | 106 | 27 | USA | USA | Medical education |
| 159 | Elevated levels of tumour necrosis factor (TNF)-alpha, interleukin (IL)-1 beta and IL-10 in hidradenitis suppurativa skin: a rationale for targeting TNF-alpha and IL-1 beta | Van Der Zee, Hessel H | Prens, Errol P | 2011 | BJD | 318 | 27 | NL | NL | Basic science |
| 160 | Staphylococcus aureus Exploits Epidermal Barrier Defects in Atopic Dermatitis to Trigger Cytokine Expression | Nakatsuji, Teruaki | Gallo, Richard | 2016 | JID | 185 | 26 | USA | USA | Pathogenesis |
| 161 | The prevalence of previously diagnosed and undiagnosed psoriasis in US adults: Results from NHANES 2003-2004 | Kurd, Shanu Kohli | Gelfand, Joel M | 2009 | JAAD | 370 | 26 | USA | USA | Epidemiology |
| 162 | Practical management of acne for clinicians: An international consensus from the Global Alliance to Improve Outcomes in Acne | Thiboutot, Diane | Xiang, Leihong Flora | 2018 | JAAD | 132 | 26 | USA | China | Treatment |
| 163 | Incidence of Hidradenitis Suppurativa and Associated Factors: A Population-Based Study of Olmsted County, Minnesota | Vazquez, Benjamin | Davis, Mark | 2013 | Jid | 264 | 26 | USA | USA | Epidemiology |
| 164 | The Prevalence and Odds of Depressive Symptoms and Clinical Depression in Psoriasis Patients: A Systematic Review and Meta-Analysis | Dowlatshahi, Emmilia | Nijsten, Tamar | 2014 | Jid | 235 | 26 | Netherlands | Netherlands | Epidemiology |
| 165 | Psoriasis Prevalence in Adults in the United States | Armstrong, April | Griffiths, Christopher | 2021 | JAMA | 52 | 26 | USA | GB | Epidemiology |
| 166 | Secukinumab demonstrates high sustained efficacy and a favourable safety profile in patients with moderate-to-severe psoriasis through 5years of treatment (SCULPTURE Extension Study) | Bissonnette, R |  Mrowietz, U. | 2018 | JEADV | 130 | 26 | CA | DE | Treatment |
| 167 | Efficacy and Safety of Omalizumab in Patients with Chronic Idiopathic/Spontaneous Urticaria Who Remain Symptomatic on H-1 Antihistamines: A Randomized, Placebo-Controlled Study | Saini, Sarbjit  | Rosen, Karin | 2015 | JID | 207 | 26 | USA | USA | Treatment |
| 168 | Frequencies of BRAF and NRAS mutations are different in histological types and sites of origin of cutaneous melanoma: a meta-analysis | Lee, Ju Han  | Kim, Yoon Seon | 2011 | BJD | 310 | 26 | KR | KR | Epidemiology |
| 169 | Tildrakizumab (MK-3222), an anti-interleukin-23p19 monoclonal antibody, improves psoriasis in a phase IIb randomized placebo-controlled trial | Papp, Kim | Shames, Richard | 2015 | BJD | 206 | 26 | CA | USA | Treatment |
| 170 | British Association of Dermatologists guidelines for biologic therapy for psoriasis 2017 | Smith, Catherine | Mustapa, Firouz | 2017 | BJD | 154 | 26 | GB | GB | Treatment |
| 171 | Objective scoring of hidradenitis suppurativa reflecting the role of tobacco smoking and obesity | Sartorius, Karin | Lapins Jan | 2009 | BJD | 359 | 26 | SE | SE | Epidemiology |
| 172 | Long-term adalimumab efficacy in patients with moderate-to-severe hidradenitis suppurativa/acne inversa: 3-year results of a phase 3 open-label extension study | Zouboulis, Christos | Jemec, Gregor  | 2019 | JAAD | 102 | 26 | DE | DK | Treatment |
| 173 | Management of bullous pemphigoid: the European Dermatology Forum consensus in collaboration with the European Academy of Dermatology and Venereology | Feliciani, Claudio | Borradori, Luca | 2015 | BJD | 203 | 25 | IT | CH | Treatment |
| 174 | Ultraviolet radiation and the skin: Photobiology and sunscreen photoprotection | Young, Antony | Ana, Beatris | 2017 | JAAD | 152 | 25 | CA | FR | Pathogenesis |
| 175 | Th17 Cytokines Stimulate CCL20 Expression in Keratinocytes In Vitro and In Vivo: Implications for Psoriasis Pathogenesis | Harper, Erin G | Blauvelt, Andrew | 2009 | JID | 354 | 25 | USA | USA | Pathogenesis |
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| 181 | Prevalence of contact allergy in the general population in different European regions | Diepgen, Thomas | Naldi, Luigi | 2016 | BJD | 174 | 25 | DE | IT | Epidemiology |
| 182 | Incidence of and Risk Factors for Skin Cancer in Organ Transplant Recipients in the United States | Garrett, Giorgia  |  Arron, Sarah T. | 2017 | JAMA | 149 | 25 | USA | USA | Epidemiology |
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| 186 | A multicentre study to determine the value and safety of drug patch tests for the three main classes of severe cutaneous adverse drug reactions | Barbaud, Annick | Waton, Julie | 2013 | Bjd | 246 | 25 | FRANCE | FRANCE | Diagnosis |
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| 191 | Tofacitinib, an oral Janus kinase inhibitor, for the treatment of chronic plaque psoriasis: results from two randomized, placebo-controlled, phase III trials | Papp, Kim | Wolk, Robert | 2015 | BJD | 193 | 24 | CA | USA | Treatment |
| 192 | Baricitinib in patients with moderate-tosevere atopic dermatitis: Results from a randomized monotherapy phase 3 trial in the United States and Canada (BREEZE-AD5) | Simpson, Eric | Papp, Kim | 2021 | JAAD | 48 | 24 | USA | CA | Treatment |
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| 194 | Vitiligo Skin Is Imprinted with Resident Memory CD8 T Cells Expressing CXCR3 | Boniface, Katia | Seneschal, Julien | 2018 | JID | 120 | 24 | FR | FR | Basic science |
| 195 | Wound healing and treating wounds Differential diagnosis and evaluation of chronic wounds | Morton, Laurel |  Phillips, Tania J. | 2016 | JAAD | 168 | 24 | USA | USA | Medical education |
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| 197 | Temporal Stability in Chronic Wound Microbiota Is Associated With Poor Healing | Loesche, Michael | Grice, Elizabeth  | 2017 | JID | 143 | 24 | USA | USA | Basic science |
| 198 | Polyomavirus-Negative Merkel Cell Carcinoma: A More Aggressive Subtype Based on Analysis of 282 Cases Using Multimodal Tumor Virus Detection | Moshiri, Ata | Nghiem, Paul | 2017 | JID | 143 | 24 | USA | USA | Pathogenesis |
| 199 | A Critical Role of the IL-1 beta-IL-1R Signaling Pathway in Skin Inflammation and Psoriasis Pathogenesis | Cai, Yihua |  Yan, Jun | 2019 | JID | 95 | 24 | USA | USA | Basic science |
| 200 | Symptoms and diagnosis of anxiety and depression in atopic dermatitis in US adults | Silverberg, Jonathan | Simpson, Eric | 2019 | BJD | 95 | 24 | USA | USA | Epidemiology |
| 201 | Diversity of the Human Skin Microbiome Early in Life | Capone, Kimberly A | Nikolovski, Janeta | 2011 | JID | 285 | 24 | USA | USA | Basic science |
| 202 | Guidelines of care for the management of atopic dermatitis Section 4. Prevention of disease flares and use of adjunctive therapies and approaches | Sidbury, Robert | Eichenfield, Lawrence | 2014 | Jaad | 213 | 24 | USA | USA | Treatment |
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| 209 | An appraisal of new treatment approaches and overview of current therapies | Strazzulla, Lauren | Shapiro, Jerry | 2018 | JAAD | 115 | 23 | USA | USA | Treatment |
| 210 | Long-term efficacy and safety of sonidegib in patients with locally advanced and metastatic basal cell carcinoma: 30-month analysis of the randomized phase 2 BOLT study | Lear, John | Dummer, Reinhard | 2018 | JEADV | 115 | 23 | GB | CHR | Treatment |
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| 213 | Recent trends in cutaneous melanoma incidence and death rates in the United States, 1992-2006 | Jemal, Ahmedin | Wingo, Phyllis A | 2011 | JAAD | 275 | 23 | USA | USA | Epidemiology |
| 214 | Irradiation of Skin with Visible Light Induces Reactive Oxygen Species and Matrix-Degrading Enzymes | Liebel, Frank | Southall, Michael  | 2012 | Jid | 252 | 23 | USA | USA | Pathogenesis |
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| 218 | Morbidity and Mortality of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in United States Adults | Hsu, Derek | Silverberg, Jonathan | 2016 | JID | 157 | 22 | USA | USA | Epidemiology |
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| 221 | Long-term Management of Adult Vulvar Lichen Sclerosus A Prospective Cohort Study of 507 Women | Lee, Andrew | Fischer, Gayle | 2015 | JAMA | 178 | 22 | AU | AU | Treatment |
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| 223 | Human Skin Is the Largest Epithelial Surface for Interaction with Microbes | Gallo, Richard | Gallo, Richard | 2017 | JID | 133 | 22 | USA | USA | Basic science |
| 224 | Efficacy and safety of tofacitinib, an oral Janus kinase inhibitor, in the treatment of psoriasis: a Phase 2b randomized placebo-controlled dose-ranging study | Papp, Kim |  Harness, Jane | 2012 | Bjd | 243 | 22 | CANADA | USA | Treatment |
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| 227 | Bullous disorders associated with anti-PD-1 and anti-PD-L1 therapy: A retrospective analysis evaluating the clinical and histopathologic features, frequency, and impact on cancer therapy | Siegel, Jacob | Leventhal, Jonathan | 2018 | JAAD | 110 | 22 | USA | USA | Pathogenesis |
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| 229 | Skin Colonization by Staphylococcus aureus Precedes the Clinical Diagnosis of Atopic Dermatitis in Infancy | Meylan, Patrick | Christen-Zaech, Stephanie | 2017 | JID | 132 | 22 | CH | CH | Pathogenesis |
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| 231 | Diagnostic Inaccuracy of Smartphone Applications for Melanoma Detection | Wolf, Joel | Ferris, Laura | 2013 | Jama | 220 | 22 | USA | USA | Diagnosis |
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| 233 | Infliximab therapy for patients with moderate to severe hidradenitis, suppurativa: A randomized, double-blind, placebo-controlled crossover trial | Grant, Annika | Kerdel, Francisco A | 2010 | JAAD | 284 | 22 | USA | USA | Treatment |
| 234 | Inflammatory eruptions associated with immune checkpoint inhibitor therapy: A single-institution retrospective analysis with stratification of reactions by toxicity and implications for management | Coleman, Emily | Leventhal, Jonathan  | 2019 | JAAD | 87 | 22 | USA | USA | Treatment |
| 235 | Autoantibody Profile Differentiates between Inflammatory and Noninflammatory Bullous Pemphigoid | Izumi, Kentaro |  Shimizu, Hiroshi | 2016 | JID | 152 | 22 | JP | JP | Basic science |
| 236 | Severity strata for Eczema Area and Severity Index (EASI), modified EASI, Scoring Atopic Dermatitis (SCORAD), objective SCORAD, Atopic Dermatitis Severity Index and body surface area in adolescents and adults with atopic dermatitis | Chopra, Rishi | Silverberg, Jonathan | 2017 | BJD | 130 | 22 | USA | USA | Diagnosis |
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| 238 | Hidradenitis suppurativa is a systemic disease with substantial comorbidity burden: A chart-verified case-control analysis | Shlyankevich, Julia | Kimball Alexandra | 2014 | Jaad | 195 | 22 | USA | USA | Epidemiology |
| 239 | Association of atopic dermatitis with being overweight and obese: A systematic review and metaanalysis | Zhang, April |  Silverberg, Jonathan | 2015 | JAAD | 173 | 22 | USA | USA | Epidemiology |
| 240 | National Psoriasis Foundation COVID-19 Task Force guidance for management of psoriatic disease during the pandemic: Version 2-Advances in psoriatic disease management, COVID-19 vaccines, and COVID-19 treatments | Gelfand, Joel | Ritchlin, Christopher | 2021 | JAAD | 43 | 22 | USA | USA | Treatment |
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| 242 | Antimicrobial and Anti-Inflammatory Activity of Chitosan Alginate Nanoparticles: A Targeted Therapy for Cutaneous Pathogens | Kinsler, Veronica | Moore, Gudrun | 2014 | Jid | 192 | 21 | GB | GB | Treatment |
| 243 | Persistence of Mild to Moderate Atopic Dermatitis | Hijnen, Dirkjan | Clark, Rachael | 2014 | Jama | 192 | 21 | Netherlands | USA | Epidemiology |
| 244 | IL-33-Dependent Group 2 Innate Lymphoid Cells Promote Cutaneous Wound Healing | Rak, Gregory  | Volk, Susan  | 2016 | JID | 149 | 21 | USA | USA | Basic science |
| 245 | Increased Suicide Risk in Patients with Hidradenitis Suppurativa | Thorlacius, Linnea | Egeberg, Alexander | 2018 | JID | 106 | 21 | DK | DK | Epidemiology |
| 246 | Safety and Efficacy of Anakinra in Severe Hidradenitis Suppurativa A Randomized Clinical Trial | Tzanetakou, Vassiliki |  Giamarellos-Bourboulis, Evangelos J. | 2016 | JAMA | 148 | 21 | GR | GR | Treatment |
| 247 | Autoimmune Destruction of Skin Melanocytes by Perilesional T Cells from Vitiligo Patients | van den Boorn, Jasper G | Luiten, Rosalie M | 2009 | JID | 296 | 21 | NL | NL | Basic science |
| 248 | Evaluation of AJCC Tumor Staging for Cutaneous Squamous Cell Carcinoma and a Proposed Alternative Tumor Staging System | Jambusaria-Pahlajani, Anokhi | Schmults, Chrysalyne | 2013 | Jama | 211 | 21 | USA | USA | Diagnosis |
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| 250 | CAMKK2 Defines Ferroptosis Sensitivity of Melanoma Cells by Regulating AMPK-NRF2 Pathway | Wang, Sijia | Li, Chunying | 2022 | JID | 21 | 21 | CN | CN | Basic science |
| 251 | Association of Cutaneous Immune-Related Adverse Events With Increased Survival in Patients Treated With Anti-Programmed Cell Death 1 and Anti-Programmed Cell Death Ligand 1 Therapy | Tang, Kimberly | Semenov, Yevgeniy | 2022 | JAMA | 21 | 21 | USA | USA | Treatment |
| 252 | Performance of the American Joint Committee on Cancer Staging Manual, 8th Edition vs the Brigham and Women's Hospital Tumor Classification System for Cutaneous Squamous Cell Carcinoma | Ruiz, Emily Stamell |  Schmults, Chrysalyne | 2019 | JAMA | 84 | 21 | USA | USA | Diagnosis |
| 253 | Comparison of ixekizumab with ustekinumab in moderate-to-severe psoriasis: 24-week results from IXORA-S, a phase III study | Reich, Kristian |  Paul, Carle | 2017 | BJD | 126 | 21 | DE | FR | Treatment |
| 254 | Expression of the IL-23/Th17 pathway in lesions of hidradenitis suppurativa | Schlapbach, Christoph | Hunger, Robert E | 2011 | JAAD | 252 | 21 | CH | CH | Pathogenesis |
| 255 | Activation of TLR2 by a Small Molecule Produced by Staphylococcus epidermidis Increases Antimicrobial Defense against Bacterial Skin Infections | Lai, Yuping | Gallo, Richard L | 2010 | JID | 271 | 21 | USA | USA | Basic science |
| 256 | Incidence, prevalence and mortality of patients with psoriasis: a UK population-based cohort study | Springate, David | Ashcroft, Darren | 2017 | BJD | 125 | 21 | GB | GB | Epidemiology |
| 257 | Efficacy and safety of topical JTE-052, a Janus kinase inhibitor, in Japanese adult patients with moderate-to-severe atopic dermatitis: a phase II, multicentre, randomized, vehicle-controlled clinical study | Nakagawa, Hidemi | Nagata, Takeshi | 2018 | BJD | 104 | 21 | JP | JP | Treatment |
| 258 | The Majority of Generalized Pustular Psoriasis without Psoriasis Vulgaris Is Caused by Deficiency of Interleukin-36 Receptor Antagonist | sugiura, Kazumitsu | Akiyama, Masashi | 2013 | Jid | 208 | 21 | Japan | Japan | Pathogenesis |
| 259 | Primary cutaneous T-cell lymphoma (mycosis fungoides and Sezary syndrome) Part I. Diagnosis: Clinical and histopathologic features and new molecular and biologic markers | Jawed, Sarah | Querfeld, Christiane | 2014 | Jaad | 187 | 21 | USA | USA | Diagnosis |
| 260 | European evidence-based (S3) guideline for the treatment of acne - update 2016-short version | Nast, Alexander |  Gollnick, Harald | 2016 | JEADV | 144 | 21 | DE | DE | Treatment |
| 261 | Secukinumab demonstrates high efficacy and a favourable safety profile in paediatric patients with severe chronic plaque psoriasis: 52-week results from a Phase 3 double-blind randomized, controlled trial | Bodemer, Christine | Papavassilis, Charis | 2021 | JEADV | 41 | 21 | FR | CHR | Treatment |
| 262 | Guidelines of care for the management of primary cutaneous melanoma | Bichakjian, Christopher K | Begolka, Wendy Smith | 2011 | JAAD | 245 | 20 | USA | USA | Treatment |
| 263 | Certolizumab pegol for the treatment of chronic plaque psoriasis: Results through 48 weeks from 2 phase 3, multicenter, randomized, double-blinded, placebo-controlled studies (CIMPASI-1 and CIMPASI-2) | Gottlieb, Alice | Reich, Kristian | 2018 | JAAD | 102 | 20 | USA | DE | Treatment |
| 264 | Association of Bullous Pemphigoid With Dipeptidyl-Peptidase 4 Inhibitors in Patients With Diabetes Estimating the Risk of the New Agents and Characterizing the Patients | Kridin, Khalaf |  Bergman, Reuven | 2018 | JAMA | 102 | 20 | IL | IL | Pathogenesis |
| 265 | Dipeptidyl peptidase IV inhibitors, a risk factor for bullous pemphigoid: Retrospective multicenter case-control study from France and Switzerland | Benzaquen, Michael | Feldmeyer, Laurence | 2018 | JAAD | 102 | 20 | FR | FR | Epidemiology |
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| 268 | Incidence and Mortality of Bullous Pemphigoid in France | Joly, Pascal | Benichou, Jacques | 2012 | Jid | 223 | 20 | FRANCE | FRANCE | Epidemiology |
| 269 | Selective Antimicrobial Action Is Provided by Phenol-Soluble Modulins Derived from Staphylococcus epidermidis, a Normal Resident of the Skin | Cogen, Anna L | Gallo, Richard L | 2010 | JID | 263 | 20 | USA | USA | Basic science |
| 270 | UVA Irradiation of Human Skin Vasodilates Arterial Vasculature and Lowers Blood Pressure Independently of Nitric Oxide Synthase | Liu, Donald | Weller, Richard | 2014 | Jid | 182 | 20 | SCOTLAND | SCOTLAND | Treatment |
| 271 | Neurofibromatosis type 1 | Boyd, Kevin P | Theos, Amy | 2009 | JAAD | 283 | 20 | USA | USA | Medical education  |
| 272 | European guideline for the management of scabies | Salavastru, Carmen-maria | Tiplica, George | 2017 | JEADV | 121 | 20 | RO | RO | Treatment |
| 273 | Dysregulated cytokine expression in lesional and nonlesional skin in hidradenitis suppurativa | Kelly, Gabrielle | Kirby, Brian | 2015 | BJD | 161 | 20 | IE | IE | Basic science |
| 274 | DRESS syndrome Part I. Clinical perspectives | Husain, Zain | Schwartz, Robert | 2013 | Jaad | 201 | 20 | USA | USA | Treatment |
| 275 | In Vivo Confocal Microscopy for Diagnosis of Melanoma and Basal Cell Carcinoma Using a Two-Step Method: Analysis of 710 Consecutive Clinically Equivocal Cases | Guitera, Pascale | Pellacani, Giovanni | 2012 | Jid | 221 | 20 | AUSTRALIA | ITALY | Diagnosis |
| 276 | Treatment of pemphigus vulgaris and foliaceus with efgartigimod, a neonatal Fc receptor inhibitor: a phase II multicentre, open-label feasibility trial | Goebeler, Matthias | Joly, Pascal | 2022 | BJD | 20 | 20 | DE | FR | Treatment |
| 277 | Conjunctivitis in adult patients with moderate-to-severe atopic dermatitis: results from five tralokinumab clinical trials | Wollenberg, Andreas | Thyssen, Jacob | 2022 | BJD | 20 | 20 | DE | DK | Epidemiology |
| 278 | Dupilumab therapy of atopic dermatitis of the elderly: a multicentre, real-life study | Patruno, Cataldo | Fabbrocini, Gabriella | 2021 | JEADV | 40 | 20 | IT | IT | Treatment |
| 279 | Meta-analysis of psoriasis, cardiovascular disease, and associated risk factors | Miller, Iben Marie | Jemer, Gregor | 2013 | Jaad | 200 | 20 | Denmark | Denmark | Epidemiology |
| 280 | IL-36 gamma (IL-1F9) Is a Biomarker for Psoriasis Skin Lesions | D'Erme, Angelo Massimiliano | Wenzel, Joerg | 2015 | JID | 159 | 20 | DE | DE | Pathogenesis |
| 281 | Standardization of terminology in dermoscopy/dermatoscopy: Results of the third consensus conference of the International Society of Dermoscopy | Kittler, Harald | Halpern, Allan | 2016 | JAAD | 139 | 20 | AT | USA | Diagnosis |
| 282 | Airborne Particle Exposure and Extrinsic Skin Aging | Vierkoetter, Andrea | Krutmann, Jean | 2010 | JID | 258 | 20 | DE | DE | Pathogenesis |
| 283 | Pediatric Mastocytosis Is a Clonal Disease Associated with (DV)-V-816 and Other Activating c-KIT Mutations | Bodemer, Christine | Dubreuil, Patrice | 2010 | JID | 257 | 20 | FR | FR | Basic science |
| 284 | Actinic keratosis with atypical basal cells (AK I) is the most common lesion associated with invasive squamous cell carcinoma of the skin | Fernandez-Figueras, Maria-Teresa | Ariza, Aurelio | 2015 | JEADV | 158 | 20 | ES | ES | Epidemiology |
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| 286 | Treating toxic epidermal necrolysis with systemic immunomodulating therapies: A systematic review and network meta-analysis | Tsai, Tsung-Yu | Tu, Yu-Kang | 2021 | JAAD | 39 | 20 | TW | TW | Treatment |
| 287 | Secukinumab retreatment-as-needed versus fixed-interval maintenance regimen for moderate to severe plaque psoriasis: A randomized, double-blind, noninferiority trial (SCULPTURE) | Mrowietz, Ulrich | Papavassilis, Charis | 2015 | JAAD | 156 | 20 | DE | CH | Treatment |
| 288 | Diabetic foot ulcers Part I. Pathophysiology and prevention | Alavi, Afsaneh | Kirsner, Robert | 2014 | Jaad | 175 | 19 | CANADA | USA | Medical education |
| 289 | Non-Melanoma Skin Cancer Incidence and Impact of Skin Cancer Screening on Incidence | Eisenmann, Nora | Katalinic, Alexander | 2014 | Jid | 174 | 19 | DE | DE | Epidemiology |
| 290 | Suicidal Ideation, Mental Health Problems, and Social Impairment Are Increased in Adolescents with Acne: A Population-Based Study | Halvorsen, Jon A | Lien, Lars | 2011 | JID | 231 | 19 | NO | NO | Epidemiology |
| 291 | Multiple Congenital Melanocytic Nevi and Neurocutaneous Melanosis Are Caused by Postzygotic Mutations in Codon 61 of NRAS | Margolis, Jacob | Margolis, David | 2013 | Jid | 192 | 19 | USA | USA | Pathogenesis |
| 292 | Epidemiology and clinical pattern of psoriatic arthritis in Germany: a prospective interdisciplinary epidemiological study of 1511 patients with plaque-type psoriasis | Reich, Kristian | Augustin, Matthias | 2009 | BJD | 268 | 19 | DE | DE | Epidemiology |
| 293 | CD8(+) T Cells in the Lesional Skin of Atopic Dermatitis and Psoriasis Patients Are an Important Source of IFN-gamma, IL-13, IL-17, and IL-22 | Friedman, Adam | Modiin, Robert | 2013 | Jid | 191 | 19 | USA | USA | Basic science |
| 294 | The clinical spectrum of COVID-19-associated cutaneous manifestations: An Italian multicenter study of 200 adult patients | Marzano, Angelo Valerio | Berti, Emilio | 2021 | JAAD | 38 | 19 | IT | IT | Diagnosis |
| 295 | Psychiatric adverse events during treatment with brodalumab: Analysis of psoriasis clinical trials | Lebwohl, Mark |  Israel, Robert  | 2018 | JAAD | 95 | 19 | USA | USA | Treatment |
| 296 | Tumor-Associated Macrophage-Induced Invasion and Angiogenesis of Human Basal Cell Carcinoma Cells by Cyclooxygenase-2 Induction | Tjiu, Jeng-Wei | Jee, Shiou-Hwa | 2009 | JID | 266 | 19 | TW | TW | Pathogenesis |
| 297 | Tofacitinib Citrate for the Treatment of Vitiligo A Pathogenesis-Directed Therapy | Craiglow, Brittany |  King, Brett  | 2015 | JAMA | 151 | 19 | USA | USA | Treatment |
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| 299 | Risk of Major Adverse Cardiovascular Events and All-Cause Mortality in Patients With Hidradenitis Suppurativa | Egeberg, Alexander | Hansen, Peter R. | 2016 | JAMA | 132 | 19 | DK | DK | Epidemiology |
| 300 | Revised UK guidelines for the management of cutaneous melanoma 2010 | Marsden, Jerry | Walker, Carol | 2010 | BJD | 245 | 19 | GB | GB | Treatment |
| 301 | Systematic skin cancer screening in Northern Germany | Breitbart, Eckhard | Katalinic, Alexander | 2012 | Jaad | 207 | 19 | DE | DE | Diagnosis |
| 302 | Patients with Atopic Dermatitis Colonized with Staphylococcus aureus Have a Distinct Phenotype and Endotype | Simpson, Eric | Beck, Lisa  | 2018 | JID | 94 | 19 | USA | USA | Pathogenesis |
| 303 | Clinical and Histologic Features of Lichenoid Mucocutaneous Eruptions Due to Anti-Programmed Cell Death 1 and Anti-Programmed Cell Death Ligand 1 Immunotherapy | Shi, Veronica | Choi, Jennifer N. | 2016 | JAMA | 131 | 19 | USA | USA | Treatment |
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| 305 | Grading dermatologic adverse events of cancer treatments: The Common Terminology Criteria for Adverse Events Version 4.0 | Chen, Alice | Lacouture,Mario | 2012 | Jaad | 204 | 19 | USA | USA | Diagnosis |
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| 330 | Pyoderma gangrenosum: a retrospective review of patient characteristics, comorbidities and therapy in 103 patients | Binus, A | Winterfield, Laura | 2011 | BJD | 210 | 18 | USA | USA | Epidemiology |
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| 355 | Comparison of drug survival rates for adalimumab, etanercept and infliximab in patients with psoriasis vulgaris | Robert Gniadecki | Skov, Lone | 2011 | BJD | 197 | 16 | DK | DK | Treatment |
| 356 | Molecular and Morphological Characterization of Inflammatory Infiltrate in Rosacea Reveals Activation of Th1/Th17 Pathways | Buhl, Timo |  Steinhoff, Martin | 2015 | JID | 131 | 16 | DE | USA | Basic science |
| 357 | Long-term efficacy and safety of ustekinumab, with and without dosing adjustment, in patients with moderate-to-severe psoriasis: results from the PHOENIX 2 study through 5 years of follow-up | Langley, Richard | Reich, Kristian | 2015 | BJD | 130 | 16 | CA | DE | Treatment |
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| 359 | Enhanced Inflammasome Activity in Patients with Psoriasis Promotes Systemic Inflammation | Verma, Deepti | Enerback, Charlotta | 2021 | JID | 32 | 16 | SE | SE | Basic science |
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| 364 | Adverse reactions to injectable soft tissue fillers | Requena, Luis | Cerroni, Lorenzo | 2011 | JAAD | 191 | 16 | ES | AUT | Treatment |
| 365 | Psychiatric comorbidities in 3207 patients with hidradenitis suppurativa | Shavit, Eran | Cohen, Amon | 2015 | JEADV | 126 | 16 | IL | IL | Epidemiology |
| 366 | TLR2 Expression Is Increased in Rosacea and Stimulates Enhanced Serine Protease Production by Keratinocytes | Yamasaki, Kenshi | Gallo, Richard L | 2011 | JID | 204 | 16 | JPN | USA | Pathogenesis |
| 367 | Knockdown of Filaggrin Impairs Diffusion Barrier Function and Increases UV Sensitivity in a Human Skin Model | Mildner, Michael | Tschachler, Erwin | 2010 | JID | 202 | 16 | AUT | AUT | Basic science |
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| 371 | A Subpopulation of CD163-Positive Macrophages Is Classically Activated in Psoriasis | Fuentes-Duculan, Judilyn | Lowes, Michelle A | 2010 | JID | 201 | 15 | USA | USA | Pathogenesis |
| 372 | British Association of Dermatologists' guidelines for the management of cutaneous warts 2014 | Sterling, Jane | Handfield-Jones, Sue | 2014 | BJD | 139 | 15 | GB | GB | Treatment |
| 373 | YAP and TAZ Regulate Skin Wound Healing | Lee, Min-Jung | Jung, Han-Sung | 2014 | JID | 139 | 15 | South korea | China | Basic science |
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| 377 | Impact of Long-Wavelength UVA and Visible Light on Melanocompetent Skin | Mahmoud, Bassel H | Hamzavi, Iltefat H | 2010 | JID | 198 | 15 | USA | USA | Basic science |
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| 379 | Induction of Regulatory T Cells and Correction of Cytokine Disbalance by Short-Chain Fatty Acids: Implications for Psoriasis Therapy | Schwarz, Agatha | Schwarz, Thomas | 2021 | JID | 30 | 15 | DE | DE | Basic science |
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| 381 | Mucocutaneous disease and related clinical characteristics in hospitalized children and adolescents with COVID-19 and multisystem inflammatory syndrome in children | Rekhtman, Sergey | Garg, Amit | 2021 | JAAD | 30 | 15 | USA | USA | Diagnosis |
| 382 | Clinical outcomes of COVID-19 in patients taking tumor necrosis factor inhibitors or methotrexate: A multicenter research network study | Yousaf, Ahmed | Kolodney, Michael | 2021 | JAAD | 30 | 15 | USA | USA | Treatment |
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| 385 | MicroRNA Expression Profiles Associated with Mutational Status and Survival in Malignant Melanoma | Caramuta, Stefano | Lui, Weng-Onn | 2010 | JID | 195 | 15 | SE | SE | Pathogenesis |
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| 387 | Hair and scalp dermatoscopy | Miteva, Mariya | Tosti, Antonella | 2012 | Jaad | 163 | 15 | USA | USA | Diagnosis |
| 388 | Translating Patient-Oriented Eczema Measure (POEM) scores into clinical practice by suggesting severity strata derived using anchor-based methods | Charman, Carolyn | Williams, Hywel | 2013 | BJD | 147 | 15 | GB | GB | Diagnosis |
| 389 | Effect of Weight Loss on the Severity of Psoriasis A Randomized Clinical Study | Jensen, Peter | Skov, Lone | 2013 | JAMA | 147 | 15 | Denmark | Denmark | Treatment |
| 390 | TSLP Produced by Keratinocytes Promotes Allergen Sensitization through Skin and Thereby Triggers Atopic March in Mice | Leyva-Castillo, Juan-Manuel | Li, Mei | 2013 | JID | 147 | 15 | FRANCE | FRANCE | Basic science |
| 391 | Probiotics in pregnant women to prevent allergic disease: a randomized, double-blind trial | Dotterud, Christian Kvikne | Oien, Torbjorn | 2010 | BJD | 191 | 15 | NO | NO | Treatment |
| 392 | Gender Differences in Melanoma Survival: Female Patients Have a Decreased Risk of Metastasis | Joosse, Arjen | Engel, Jutta | 2011 | JID | 176 | 15 | NL | DE | Epidemiology |
| 393 | The Human Skin Barrier Is Organized as Stacked Bilayers of Fully Extended Ceramides with Cholesterol Molecules Associated with the Ceramide Sphingoid Moiety | Iwai, Ichiro | Norlen, Lars | 2012 | Jid | 161 | 15 | Sweden | Sweden | Basic science |
| 394 | British Association of Dermatologists' guidelines for the management of lichen sclerosus 2010 | Neill, Sallie | Cox, Neil | 2010 | BJD | 190 | 15 | GB | GB | Treatment |
| 395 | Enhanced Expression and Secretion of Antimicrobial Peptides in Atopic Dermatitis and after Superficial Skin Injury | Harder, Juergen | Schwarz, Thomas | 2010 | JID | 190 | 15 | DE | DE | Basic science |
| 396 | Rosacea: Current state of epidemiology | Tan, Jerry | Berg, Mats | 2013 | JAAD | 146 | 15 | CANADA | SWEDEN | Epidemiology |
| 397 | Skin Commensals Amplify the Innate Immune Response to Pathogens by Activation of Distinct Signaling Pathways | Wanke, Ines | Schittek, Birgit | 2011 | JID | 175 | 15 | DE | DE | Basic science |
| 398 | Emerging antifungal treatment failure of dermatophytosis in Europe: take care or it may become endemic | Saunte, Ditte-marie | Hay, Roderick | 2021 | JEADV | 29 | 15 | CHR | CHR | Treatment |
| 399 | Human Dermal Fibroblast Subpopulations Are Conserved across Single-Cell RNA Sequencing Studies | Ascension, Alex | Arauzo-Bravo, Marcos | 2021 | JID | 29 | 15 | ES | ES | Basic science |
| 400 | Skin aging: In vivo microscopic assessment of epidermal and dermal changes by means of confocal microscopy | Longo, Caterina | Pellacani, Giovanni | 2013 | JAAD | 144 | 14 | Italy | ITALY | Diagnosis |
| 401 | Prevalence of Actinic Keratosis and Its Risk Factors in the General Population: The Rotterdam Study | Flohil, Sophie | Nijsten, Tamar | 2013 | JID | 144 | 14 | Netherlands | Netherlands | Epidemiology |
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| 403 | A randomized phase 2a efficacy and safety trial of the topical Janus kinase inhibitor tofacitinib in the treatment of chronic plaque psoriasis | Ports, William  | Papp, Kim | 2013 | BJD | 142 | 14 | USA | CANADA | Treatment |
| 404 | Systemic Immune Suppression Predicts Diminished Merkel Cell Carcinoma-Specific Survival Independent of Stage | Paulson, Kelly | Nghiem, Paul | 2013 | JID | 142 | 14 | USA | USA | Basic science |
| 405 | Autophagy Has a Significant Role in Determining Skin Color by Regulating Melanosome Degradation in Keratinocytes | Murase, Daiki | Yoshimori, Tamotsu | 2013 | JID | 141 | 14 | Japan | Japan | Basic science |
| 406 | Melanoma incidence and mortality in Europe: new estimates, persistent disparities | Forsea, Ana-Maria | Geller, Alan | 2012 | BJD | 155 | 14 | USA | USA | Epidemiology |
| 407 | Infantile hemangioma. Part 1: Epidemiology, pathogenesis, clinical presentation and assessment | Bandera, Ana-Rodriguez | Wong, Li-Chuen | 2021 | JAAD | 28 | 14 | AU | AU | Medical education |
| 408 | Efficacy and Safety of Abrocitinib in Combination With Topical Therapy in Adolescents With Moderate-to-Severe Atopic Dermatitis The JADE TEEN Randomized Clinical Trial | Eichenfield, Lawrence | Chan, Gary | 2021 | JAMA | 28 | 14 | USA | USA | Treatment |
| 409 | Recommended core outcome instruments for health-related quality of life, long-term control and itch intensity in atopic eczema trials: results of the HOME VII consensus meeting | Thomas, Shikako | Katoh, Norito | 2021 | BJD | 28 | 14 | GB | JP | Epidemiology |
| 410 | Long-term efficacy of ustekinumab in patients with moderate-to-severe psoriasis treated for up to 5 years in the PHOENIX 1 study | Kimball Alexandra | Gordon, Kenneth | 2013 | JEADV | 140 | 14 | USA | USA | Treatment |
| 411 | miRNA Expression Profiling in Melanocytes and Melanoma Cell Lines Reveals miRNAs Associated with Formation and Progression of Malignant Melanoma | Mueller, Daniel W | Bosserhoff, Anja K | 2009 | JID | 196 | 14 | DE | DE | Pathogenesis |
| 412 | Sarcoidosis: A comprehensive review and update for the dermatologist Part I. Cutaneous disease | Haimovich, Adele | Prystowsky, Stephen | 2012 | JAAD | 153 | 14 | USA | USA | Medical education |
| 413 | The risk of squamous cell and basal cell cancer associated with psoralen and ultraviolet A therapy: A 30-year prospective study | Stern, Robert | Stern, Robert | 2012 | JAAD | 153 | 14 | USA | USA | Epidemiology |
| 414 | Expression of microRNAs in basal cell carcinoma | Sand, Michael | Bechara, Falk | 2012 | BJD | 153 | 14 | DE | DE | Basic science |
| 415 | Epithelial Wnt Ligand Secretion Is Required for Adult Hair Follicle Growth and Regeneration | Myung, Peggy | Atit, Radhika | 2013 | JID | 139 | 14 | USA | USA | Basic science |
| 416 | A randomized, double-blind, placebo- and active-controlled, half-head study to evaluate the effects of platelet-rich plasma on alopecia areata | Trink, Anna | Rinaldi, Fabio | 2013 | BJD | 139 | 14 | Italy | ITALY | Treatment |
| 417 | MiR-125b, a MicroRNA Downregulated in Psoriasis, Modulates Keratinocyte Proliferation by Targeting FGFR2 | Xu, Ning | Pivarcsi, Andor | 2011 | JID | 165 | 14 | SE | HU | Pathogenesis |
| 418 | Accuracy of dermoscopic criteria for the diagnosis of psoriasis, dermatitis, lichen planus and pityriasis rosea | Lallas, Aimilios | Zalaudek, Iris | 2012 | BJD | 151 | 14 | Greece | ITALY | Diagnosis |
| 419 | Antimicrobial and Healing Efficacy of Sustained Release Nitric Oxide Nanoparticles Against Staphylococcus Aureus Skin Infection | Martinez, Luis R | Friedman, Joel M | 2009 | JID | 192 | 14 | USA | USA | Treatment |
| 420 | Safety of low-dose oral minoxidil for hair loss: A multicenter study of 1404 patients | Vano-Galvan, Sergio | Bhoyrul, Bevin | 2021 | JAAD | 27 | 14 | ES | AU | Treatment |
| 421 | Calcinosis cutis Part I. Diagnostic pathway | Reiter, Nadine | Aberer, Elisabeth | 2011 | JAAD | 162 | 14 | AUT | AUT | Medical education  |
| 422 | Efficacy and tolerability of proactive treatment with topical corticosteroids and calcineurin inhibitors for atopic eczema: systematic review and meta-analysis of randomized controlled trials | Schmitt, Jochen | Apfelbacher, Christian  | 2011 | BJD | 162 | 14 | DE | DE | Treatment |
| 423 | Efficacy of tacrolimus 0.1% ointment in cutaneous lupus erythematosus: A multicenter, randomized, double-blind, vehicle-controlled trial | Kuhn, Annegret | Ruzicka, Thomas | 2011 | JAAD | 161 | 13 | DE | DE | Treatment |
| 424 | Incidence of bullous pemphigoid and pemphigus in Switzerland: a 2-year prospective study | Marazza, Gionata | Borradori, Luca | 2009 | BJD | 187 | 13 | CH | CH | Epidemiology |
| 425 | Hereditary angio-oedema in Denmark: a nationwide survey | Bygum, Anette | Bygum, Anette | 2009 | BJD | 186 | 13 | DK | DK | Epidemiology |
| 426 | Hair Follicle Stem Cell-Specific PPAR gamma Deletion Causes Scarring Alopecia | Karnik, Pratima | Mirmirani, Paradi | 2009 | JID | 186 | 13 | USA | USA | Pathogenesis |
| 427 | Dermatoscopy of facial actinic keratosis, intraepidermal carcinoma, and invasive squamous cell carcinoma: A progression model | Zalaudek, Iris | Argenziano, Giuseppe | 2012 | JAAD | 146 | 13 | Austria | Italy | Diagnosis |
| 428 | Assessment of the Psoriatic Transcriptome in a Large Sample: Additional Regulated Genes and Comparisons with In Vitro Models | Gudjonsson, Johann E | Elder, James T | 2010 | JID | 172 | 13 | USA | USA | Basic science |
| 429 | Incidence, Mortality, and Disease Associations of Pyoderma Gangrenosum in the United Kingdom: A Retrospective Cohort Study | Langan, Sinead | Gulliford, Martin | 2012 | JID | 145 | 13 | GB | GB | Epidemiology |
| 430 | Topical corticosteroid phobia in atopic dermatitis: a study of its nature, origins and frequency | Aubert-Wastiaux, Helene | Barbarot, Sebastien | 2011 | BJD | 158 | 13 | FR | FR | Treatment |
| 431 | A new American Joint Committee on Cancer staging system for cutaneous squamous cell carcinoma: Creation and rationale for inclusion of tumor (T) characteristics | Farasat, Sharifeh | Liegeois, Nanette J | 2011 | JAAD | 158 | 13 | USA | USA | Diagnosis |
| 432 | The efficacy and tolerability of tetracyclines and clindamycin plus rifampicin for the treatment of hidradenitis suppurativa: Results of a prospective European cohort study | van Straalen, Kelsey | van der Zee, Hessel | 2021 | JAAD | 26 | 13 | NL | NL | Treatment |
| 433 | Differential Changes in Inflammatory Mononuclear Phagocyte and T-Cell Profiles within Psoriatic Skin during Treatment with Guselkumab vs. Secukinumab | Mehta, Heena | Sarfati, Marika | 2021 | JID | 26 | 13 | CA | CA | Basic science |
| 434 | Health-Related QOL and Economic Burden of Chronic Pruritus | Whang, Katherine | Kwatra, Shawn | 2021 | JID | 26 | 13 | USA | USA | Epidemiology |
| 435 | Efficacy and Safety of Bimekizumab in Moderate to Severe Hidradenitis Suppurativa A Phase 2, Double-blind, Placebo-Controlled Randomized Clinical Trial | Glatt, Sophie | Shaw, Stevan | 2021 | JAMA | 26 | 13 | GB | GB | Treatment |
| 436 | Delgocitinib ointment in pediatric patients with atopic dermatitis: A phase 3, randomized, double-blind, vehicle-controlled study and a subsequent open-label, long-term study | Nakagawa, Hidemi | Nagata, Takeshi | 2021 | JAAD | 26 | 13 | JP | JP | Treatment |
| 437 | Visible light. Part I: Properties and cutaneous effects of visible light | Austin, Evan | Jagdeo, Jared | 2021 | JAAD | 26 | 13 | USA | USA | Treatment |
| 438 | Proof of concept for the clinical effects of oral rilzabrutinib, the first Bruton tyrosine kinase inhibitor for pemphigus vulgaris: the phase II BELIEVE study | Murrell, Dedee | Joly, Pascal | 2021 | BJD | 26 | 13 | AU | FR | Treatment |
| 439 | The impact of demographics, socioeconomics, and health care access on melanoma outcomes | Cortez, Jose | Wei, Maria | 2021 | JAAD | 26 | 13 | USA | USA | Epidemiology |
| 440 | Efficacy of biologics in the treatment of moderate to severe psoriasis: a network meta-analysis of randomized controlled trials | Reich, Kristian | Hawkins, Charles | 2012 | BJD | 143 | 13 | DE | GB | Treatment |
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Fig 1

Fig 2