Juergen Lademann

List of Publications by Citations

342 papers	13,795 citations	62 h-index	103 g-index
369 ext. papers	15,319 ext. citations	3.5 avg, IF	6.39 L-index

#	Paper	IF	Citations
342	The potential risks of nanomaterials: a review carried out for ECETOC. *Particle and Fibre Toxicology*, **2006**, 3, 11	8.4	870
341	Grey goo on the skin? Nanotechnology, cosmetic and sunscreen safety. *Critical Reviews in Toxicology*, **2007**, 37, 251-77	5.7	491
340	Nanoparticles--an efficient carrier for drug delivery into the hair follicles. *European Journal of Pharmaceutics and Biopharmaceutics*, **2007**, 66, 159-64	5.7	424
339	Penetration of titanium dioxide microparticles in a sunscreen formulation into the horny layer and the follicular orifice. *Skin Pharmacology and Physiology*, **1999**, 12, 247-56	3	372
338	Porcine ear skin: an in vitro model for human skin. *Skin Research and Technology*, **2007**, 13, 19-24	1.9	356
337	Variations of hair follicle size and distribution in different body sites. *Journal of Investigative Dermatology*, **2004**, 122, 14-9	4.3	296
336	40 nm, but not 750 or 1,500 nm, nanoparticles enter epidermal CD1a+ cells after transcutaneous application on human skin. *Journal of Investigative Dermatology*, **2006**, 126, 1316-22	4.3	261
335	The tape stripping procedure--evaluation of some critical parameters. *European Journal of Pharmaceutics and Biopharmaceutics*, **2009**, 72, 317-23	5.7	234
334	Selective follicular targeting by modification of the particle sizes. *Journal of Controlled Release*, **2011**, 150, 45-8	11.7	223
333	Skin penetration and cellular uptake of amorphous silica nanoparticles with variable size, surface functionalization, and colloidal stability. *ACS Nano*, **2012**, 6, 6829-42	16.7	202
332	Hair follicles - a long-term reservoir for drug delivery. *Skin Pharmacology and Physiology*, **2006**, 19, 232-6	3	185
331	Follicular transport route--research progress and future perspectives. *European Journal of Pharmaceutics and Biopharmaceutics*, **2009**, 71, 173-80	5.7	171
330	Testing strategies to establish the safety of nanomaterials: conclusions of an ECETOC workshop. *Inhalation Toxicology*, **2007**, 19, 631-43	2.7	171
329	Surface functionalization of silica nanoparticles supports colloidal stability in physiological media and facilitates internalization in cells. *Langmuir*, **2012**, 28, 7598-613	4	166
328	The role of hair follicles in the percutaneous absorption of caffeine. *British Journal of Clinical Pharmacology*, **2008**, 65, 488-92	3.8	152
327	Infrared radiation-induced matrix metalloproteinase in human skin: implications for protection. *Journal of Investigative Dermatology*, **2008**, 128, 2491-7	4.3	143
326	Hair follicles--an efficient storage and penetration pathway for topically applied substances. Summary of recent results obtained at the Center of Experimental and Applied Cutaneous Physiology, Charit□Universit□smedizin Berlin, Germany. *Skin Pharmacology and Physiology*, **2008**, 21, 150-5	3	139

325	Differential stripping: determination of the amount of topically applied substances penetrated into the hair follicles. *Journal of Investigative Dermatology*, **2005**, 125, 264-9	4.3	127
324	Investigation of follicular penetration of topically applied substances. *Skin Pharmacology and Physiology*, **2001**, 14 Suppl 1, 17-22	3	125
323	UVB-induced DNA damage, generation of reactive oxygen species, and inflammation are effectively attenuated by the flavonoid luteolin in vitro and in vivo. *Free Radical Biology and Medicine*, **2011**, 50, 1081-93	7.8	114
322	Innovative liposomes as a transfollicular drug delivery system: penetration into porcine hair follicles. *Journal of Investigative Dermatology*, **2006**, 126, 1728-32	4.3	114
321	Pegylated liposomal doxorubicin-associated hand-foot syndrome: recommendations of an international panel of experts. *European Journal of Cancer*, **2008**, 44, 781-90	7.5	108
320	Drug delivery to hair follicles. *Expert Opinion on Drug Delivery*, **2013**, 10, 787-97	8	103
319	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. *Beilstein Journal of Nanotechnology*, **2014**, 5, 1944-65	3	102
318	Penetration and storage of particles in human skin: perspectives and safety aspects. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 77, 465-8	5.7	102
317	Comparison of stratum corneum penetration and localization of a lipophilic model drug applied in an o/w microemulsion and an amphiphilic cream. *European Journal of Pharmaceutics and Biopharmaceutics*, **2007**, 67, 699-706	5.7	101
316	The Role of Carotenoids in Human Skin. *Molecules*, **2011**, 16, 10491-10506	4.8	96
315	In vivo determination of skin surface topography using an optical 3D device. *Skin Research and Technology*, **2004**, 10, 207-14	1.9	96
314	Molecular action mechanisms of solar infrared radiation and heat on human skin. *Ageing Research Reviews*, **2014**, 16, 1-11	12	95
313	Follicular targeting--a promising tool in selective dermatotherapy. *Journal of Investigative Dermatology Symposium Proceedings*, **2005**, 10, 252-5	1.1	95
312	Bioavailability of natural carotenoids in human skin compared to blood. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 76, 269-74	5.7	93
311	One-year study on the variation of carotenoid antioxidant substances in living human skin: influence of dietary supplementation and stress factors. *Journal of Biomedical Optics*, **2008**, 13, 044028	3.5	92
310	Cutaneous concentration of lycopene correlates significantly with the roughness of the skin. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 69, 943-7	5.7	92
309	Differential stripping demonstrates a significant reduction of the hair follicle reservoir in vitro compared to in vivo. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 70, 234-8	5.7	89
308	Risk assessment of the application of a plasma jet in dermatology. *Journal of Biomedical Optics*, **2009**, 14, 054025	3.5	84

307	Gender-related differences in the physiology of the stratum corneum. *Dermatology*, **2005**, 211, 312-7	4.4	84
306	Radical production by infrared A irradiation in human tissue. *Skin Pharmacology and Physiology*, **2010**, 23, 40-6	3	83
305	Reactive molecule species and antioxidative mechanisms in normal skin and skin aging. *Skin Pharmacology and Physiology*, **2014**, 27, 316-32	3	82
304	In vivo investigations on the penetration of various oils and their influence on the skin barrier. *Skin Research and Technology*, **2012**, 18, 364-9	1.9	82
303	Depth profiles of hydrogen bound water molecule types and their relation to lipid and protein interaction in the human stratum corneum in vivo. *Analyst, The*, **2016**, 141, 6329-6337	5	81
302	Safety assessment by multiphoton fluorescence/second harmonic generation/hyper-Rayleigh scattering tomography of ZnO nanoparticles used in cosmetic products. *Skin Pharmacology and Physiology*, **2012**, 25, 219-26	3	79
301	Application of optical non-invasive methods in skin physiology: a comparison of laser scanning microscopy and optical coherent tomography with histological analysis. *Skin Research and Technology*, **2007**, 13, 119-32	1.9	78
300	Effect of supplemented and topically applied antioxidant substances on human tissue. *Skin Pharmacology and Physiology*, **2006**, 19, 238-47	3	78
299	In vivo skin treatment with tissue-tolerable plasma influences skin physiology and antioxidant profile in human stratum corneum. *Experimental Dermatology*, **2012**, 21, 130-4	4	77
298	Formation of free radicals in human skin during irradiation with infrared light. *Journal of Investigative Dermatology*, **2010**, 130, 629-31	4.3	77
297	Noninvasive selective detection of lycopene and beta-carotene in human skin using Raman spectroscopy. *Journal of Biomedical Optics*, **2004**, 9, 332-8	3.5	77
296	Hair follicles contribute significantly to penetration through human skin only at times soon after application as a solvent deposited solid in man. *British Journal of Clinical Pharmacology*, **2011**, 72, 768-74	3.8	75
295	Permeation of topically applied caffeine through human skin--a comparison of in vivo and in vitro data. *British Journal of Clinical Pharmacology*, **2009**, 68, 181-6	3.8	73
294	Determination of the cuticula thickness of human and porcine hairs and their potential influence on the penetration of nanoparticles into the hair follicles. *Journal of Biomedical Optics*, **2009**, 14, 021014	3.5	72
293	Optical coherence tomography for presurgical margin assessment of non-melanoma skin cancer - a practical approach. *Experimental Dermatology*, **2013**, 22, 547-51	4	71
292	Carotenoids in human skin. *Experimental Dermatology*, **2011**, 20, 377-82	4	71
291	Which skin model is the most appropriate for the investigation of topically applied substances into the hair follicles?. *Skin Pharmacology and Physiology*, **2010**, 23, 47-52	3	71
290	Follicular and percutaneous penetration pathways of topically applied minoxidil foam. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 76, 450-3	5.7	71

289	Morphometry of human terminal and vellus hair follicles. *Experimental Dermatology*, **2007**, 16, 946-50	4	69
288	Effect of size of TiO2 nanoparticles embedded into stratum corneum on ultraviolet-A and ultraviolet-B sun-blocking properties of the skin. *Journal of Biomedical Optics*, **2005**, 10, 064037	3.5	69
287	Penetration of silver nanoparticles into porcine skin ex vivo using fluorescence lifetime imaging microscopy, Raman microscopy, and surface-enhanced Raman scattering microscopy. *Journal of Biomedical Optics*, **2015**, 20, 051006	3.5	68
286	Influence of dietary carotenoids on radical scavenging capacity of the skin and skin lipids. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 84, 365-73	5.7	68
285	Optical methods for noninvasive determination of carotenoids in human and animal skin. *Journal of Biomedical Optics*, **2013**, 18, 61230	3.5	66
284	Follicular penetration: development of a method to block the follicles selectively against the penetration of topically applied substances. *Skin Pharmacology and Physiology*, **2006**, 19, 216-23	3	66
283	Overview about the localization of nanoparticles in tissue and cellular context by different imaging techniques. *Beilstein Journal of Nanotechnology*, **2015**, 6, 263-80	3	65
282	In vivo distribution of carotenoids in different anatomical locations of human skin: comparative assessment with two different Raman spectroscopy methods. *Experimental Dermatology*, **2009**, 18, 1060-3	4	65
281	Determination of the antioxidative capacity of the skin in vivo using resonance Raman and electron paramagnetic resonance spectroscopy. *Experimental Dermatology*, **2011**, 20, 483-7	4	62
280	Recent progress in tissue optical clearing for spectroscopic application. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 197, 216-229	4.4	58
279	Interaction between carotenoids and free radicals in human skin. *Skin Pharmacology and Physiology*, **2011**, 24, 238-44	3	58
278	Antimicrobial efficacy of two surface barrier discharges with air plasma against in vitro biofilms. *PLoS ONE*, **2013**, 8, e70462	3.7	57
277	Topical beta-carotene protects against infra-red-light-induced free radicals. *Experimental Dermatology*, **2011**, 20, 125-9	4	57
276	Cutaneous lycopene and beta-carotene levels measured by resonance Raman spectroscopy: high reliability and sensitivity to oral lactolycopene deprivation and supplementation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2009**, 73, 187-94	5.7	57
275	Influence of microneedle shape on the transport of a fluorescent dye into human skin in vivo. *Journal of Controlled Release*, **2010**, 147, 218-24	11.7	56
274	Combined antibacterial effects of tissue-tolerable plasma and a modern conventional liquid antiseptic on chronic wound treatment. *Journal of Biophotonics*, **2015**, 8, 382-91	3.1	55
273	Follicular penetration and targeting. *Journal of Investigative Dermatology Symposium Proceedings*, **2005**, 10, 301-3	1.1	55
272	Blue-violet light irradiation dose dependently decreases carotenoids in human skin, which indicates the generation of free radicals. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 579675	6.7	54

271	Influence of nonhomogeneous distribution of topically applied UV filters on sun protection factors. *Journal of Biomedical Optics*, **2004**, 9, 1358-62	3.5	54
270	A depth-dependent profile of the lipid conformation and lateral packing order of the stratum corneum in vivo measured using Raman microscopy. *Analyst, The*, **2016**, 141, 1981-7	5	53
269	In vivo photoprotective and anti-inflammatory effect of hyperforin is associated with high antioxidant activity in vitro and ex vivo. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 81, 346-50	5.7	53
268	Clinical coherent anti-Stokes Raman scattering and multiphoton tomography of human skin with a femtosecond laser and photonic crystal fiber. *Laser Physics Letters*, **2013**, 10, 025604	1.5	52
267	Two-photon autofluorescence lifetime imaging of human skin papillary dermis in vivo: assessment of blood capillaries and structural proteins localization. *Scientific Reports*, **2017**, 7, 1171	4.9	52
266	Nanocrystals of medium soluble actives--novel concept for improved dermal delivery and production strategy. *International Journal of Pharmaceutics*, **2014**, 470, 141-50	6.5	52
265	Analysis of Human and Porcine Skin in vivo/ex vivo for Penetration of Selected Oils by Confocal Raman Microscopy. *Skin Pharmacology and Physiology*, **2015**, 28, 318-30	3	51
264	Quantification of the horny layer using tape stripping and microscopic techniques. *Journal of Biomedical Optics*, **2003**, 8, 601-7	3.5	51
263	Combined in vivo multiphoton and CARS imaging of healthy and disease-affected human skin. *Microscopy Research and Technique*, **2012**, 75, 492-8	2.8	50
262	Effect of the vehicle on the amount of stratum corneum removed by tape stripping. *JDDG - Journal of the German Society of Dermatology*, **2003**, 1, 884-9	1.2	50
261	Ultra-small lipid nanoparticles promote the penetration of coenzyme Q10 in skin cells and counteract oxidative stress. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 89, 201-7	5.7	49
260	Do nanoparticles have a future in dermal drug delivery?. *Journal of Controlled Release*, **2017**, 246, 174-182	11.7	49
259	In vivo study for the discrimination of cancerous and normal skin using fibre probe-based Raman spectroscopy. *Experimental Dermatology*, **2015**, 24, 767-72	4	48
258	In vivo confocal scanning laser microscopy: comparison of the reflectance and fluorescence mode by imaging human skin. *Journal of Biomedical Optics*, **2006**, 11, 044012	3.5	48
257	Confocal Raman microscopy and multivariate statistical analysis for determination of different penetration abilities of caffeine and propylene glycol applied simultaneously in a mixture on porcine skin ex vivo. *European Journal of Pharmaceutics and Biopharmaceutics*, **2016**, 104, 51-8	5.7	48
256	Free radicals induced by sunlight in different spectral regions - in´vivo versus ex´vivo study. *Experimental Dermatology*, **2016**, 25, 380-5	4	45
255	Keratin-water-NMF interaction as a three layer model in the human stratum corneum using in vivo confocal Raman microscopy. *Scientific Reports*, **2017**, 7, 15900	4.9	44
254	Encapsulated curcumin results in prolonged curcumin activity in vitro and radical scavenging activity ex vivo on skin after UVB-irradiation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 82, 485-90	5.7	44

253	Comparative study of carotenoids, catalase and radical formation in human and animal skin. *Skin Pharmacology and Physiology*, **2010**, 23, 306-12	3	44
252	Shape-Dependent Dissolution and Cellular Uptake of Silver Nanoparticles. *Langmuir*, **2018**, 34, 1506-1519	4	43
251	Dendritic polyglycerol and N-isopropylacrylamide based thermoresponsive nanogels as smart carriers for controlled delivery of drugs through the hair follicle. *Nanoscale*, **2017**, 9, 172-182	7.7	43
250	Interaction of dermatologically relevant nanoparticles with skin cells and skin. *Beilstein Journal of Nanotechnology*, **2014**, 5, 2363-73	3	42
249	Dermal carotenoid level and kinetics after topical and systemic administration of antioxidants: enrichment strategies in a controlled in vivo study. *Journal of Dermatological Science*, **2011**, 64, 53-8	4.3	42
248	Skin barrier disruptions in tape stripped and allergic dermatitis models have no effect on dermal penetration and systemic distribution of AHAPS-functionalized silica nanoparticles. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1571-81	6	41
247	Ratchet effect for nanoparticle transport in hair follicles. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 116, 125-130	5.7	41
246	Prooxidant and antioxidant behaviour of usnic acid from lichens under UVB-light irradiation--studies on human cells. *Journal of Photochemistry and Photobiology B: Biology*, **2010**, 101, 97-102	6.7	41
245	Detection and Discrimination of Non-Melanoma Skin Cancer by Multimodal Imaging. *Healthcare (Switzerland)*, **2013**, 1, 64-83	3.4	40
244	Resonance Raman spectroscopy as an effective tool for the determination of antioxidative stability of cosmetic formulations. *Journal of Biophotonics*, **2010**, 3, 82-8	3.1	40
243	An in vivo model to evaluate the efficacy of barrier creams on the level of skin penetration of chemicals. *Contact Dermatitis*, **2006**, 54, 5-13	2.7	40
242	Designing inorganic light-protective skin nanotechnology products. *Journal of Biomedical Nanotechnology*, **2010**, 6, 432-51	4	40
241	Cold Physical Plasmas in the Field of Hygiene: Relevance, Significance, and Future Applications. *Plasma Processes and Polymers*, **2015**, 12, 1410-1422	3.4	39
240	The modified HET-CAM as a model for the assessment of the inflammatory response to tissue tolerable plasma. *Toxicology in Vitro*, **2011**, 25, 530-7	3.6	39
239	Sunscreen application at the beach. *Journal of Cosmetic Dermatology*, **2004**, 3, 62-8	2.5	39
238	Determination of penetration profiles of topically applied substances by means of tape stripping and optical spectroscopy: UV filter substance in sunscreens. *Journal of Biomedical Optics*, **2005**, 10, 14009	3.5	39
237	Human skin in vivo has a higher skin barrier function than porcine skin ex vivo-comprehensive Raman microscopic study of the stratum corneum. *Journal of Biophotonics*, **2018**, 11, e201700355	3.1	37
236	Hair follicles, their disorders and their opportunities. *Drug Discovery Today Disease Mechanisms*, **2008**, 5, e173-e181		37

235	Clinical applicability of in vivo fluorescence confocal microscopy for noninvasive diagnosis and therapeutic monitoring of nonmelanoma skin cancer. *Journal of Biomedical Optics*, **2008**, 13, 014003	3.5	37
234	Synergy effects between organic and inorganic UV filters in sunscreens. *Journal of Biomedical Optics*, **2005**, 10, 14008	3.5	37
233	Triggering of drug release of particles in hair follicles. *Journal of Controlled Release*, **2012**, 160, 509-14	11.7	36
232	In vivo methods for the analysis of the penetration of topically applied substances in and through the skin barrier. *International Journal of Cosmetic Science*, **2012**, 34, 551-9	2.7	36
231	Radical protection by sunscreens in the infrared spectral range. *Photochemistry and Photobiology*, **2011**, 87, 452-6	3.6	36
230	Comparison of silver nanoparticles stored under air or argon with respect to the induction of intracellular free radicals and toxic effects toward keratinocytes. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 651-7	5.7	35
229	Alcohol consumption decreases the protection efficiency of the antioxidant network and increases the risk of sunburn in human skin. *Skin Pharmacology and Physiology*, **2013**, 26, 45-51	3	35
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227	Confocal Raman microscopy supported by optical clearing treatment of the skin□influence on collagen hydration. *Journal Physics D: Applied Physics*, **2017**, 50, 285401	3	34
226	Comparative study of hair follicle morphology in eight mammalian species and humans. *Skin Research and Technology*, **2014**, 20, 147-54	1.9	34
225	Dermal nanocrystals from medium soluble actives - physical stability and stability affecting parameters. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 85-91	5.7	34
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223	Qualitative detection of single submicron and nanoparticles in human skin by scanning transmission x-ray microscopy. *Journal of Biomedical Optics*, **2009**, 14, 021015	3.5	34
222	Influence of massage and occlusion on the ex vivo skin penetration of rigid liposomes and invasomes. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 86, 301-6	5.7	33
221	In vivo detection of basal cell carcinoma: comparison of a reflectance confocal microscope and a multiphoton tomograph. *Journal of Biomedical Optics*, **2013**, 18, 61229	3.5	33
220	Uptake of antioxidants by natural nutrition and supplementation: pros and cons from the dermatological point of view. *Skin Pharmacology and Physiology*, **2011**, 24, 269-73	3	32
219	Recent advances in follicular drug delivery of nanoparticles. *Expert Opinion on Drug Delivery*, **2020**, 17, 49-60	8	32
218	pH-sensitive Eudragit□ L 100 nanoparticles promote cutaneous penetration and drug release on the skin. *Journal of Controlled Release*, **2019**, 295, 214-222	11.7	32

217	Hair follicle targeting, penetration enhancement and Langerhans cell activation make cyanoacrylate skin surface stripping a promising delivery technique for transcutaneous immunization with large molecules and particle-based vaccines. *Experimental Dermatology*, **2015**, 24, 73-5	4	31
216	Photocatalytic activity of TiO2 nanoparticles: effect of thermal annealing under various gaseous atmospheres. *Nanotechnology*, **2012**, 23, 475711	3.4	31
215	Optical investigations to avoid the disturbing influences of furrows and wrinkles quantifying penetration of drugs and cosmetics into the skin by tape stripping. *Journal of Biomedical Optics*, **2005**, 10, 054015	3.5	31
214	Hydrogen bound water profiles in the skin influenced by optical clearing molecular agents-Quantitative analysis using confocal Raman microscopy. *Journal of Biophotonics*, **2019**, 12, e201800283	3.1	31
213	In vivo confocal Raman microscopic determination of depth profiles of the stratum corneum lipid organization influenced by application of various oils. *Journal of Dermatological Science*, **2017**, 87, 183-191	4.3	30
212	Radical protection by differently composed creams in the UV/VIS and IR spectral ranges. *Photochemistry and Photobiology*, **2013**, 89, 1079-84	3.6	30
211	The Irritation Potential of Nonthermal Atmospheric Pressure Plasma in the HET-CAM. *Plasma Processes and Polymers*, **2010**, 7, 318-326	3.4	30
210	Penetration studies of topically applied substances: Optical determination of the amount of stratum corneum removed by tape stripping. *Journal of Biomedical Optics*, **2006**, 11, 054026	3.5	30
209	Fibroblast origin shapes tissue homeostasis, epidermal differentiation, and drug uptake. *Scientific Reports*, **2019**, 9, 2913	4.9	29
208	Gaussian-function-based deconvolution method to determine the penetration ability of petrolatum oil intoin vivohuman skin using confocal Raman microscopy. *Laser Physics*, **2014**, 24, 105601	1.2	29
207	Evaluation of optical coherence tomography as a non-invasive diagnostic tool in cutaneous wound healing. *Skin Research and Technology*, **2014**, 20, 1-7	1.9	29
206	Cutaneous distribution and localization of dyes affected by vehicles all with different lipophilicity. *Archives of Dermatological Research*, **2006**, 297, 303-10	3.3	29
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204	Confocal laser-scanning microscopy of capillaries in normal and psoriatic skin. *Journal of Biomedical Optics*, **2012**, 17, 101511	3.5	28
203	Investigation of the stability of coated titanium microparticles used in sunscreens. *Skin Pharmacology and Physiology*, **2000**, 13, 258-64	3	28
202	New strategies for preoperative skin antisepsis. *Skin Pharmacology and Physiology*, **2014**, 27, 283-92	3	27
201	Influence of sun exposure on the cutaneous collagen/elastin fibers and carotenoids: negative effects can be reduced by application of sunscreen. *Journal of Biophotonics*, **2014**, 7, 735-43	3.1	27
200	Laser scanning microscopy as a means to assess the augmentation of tissue repair by exposition of wounds to tissue tolerable plasma. *Laser Physics Letters*, **2014**, 11, 115701	1.5	26

199	Influence of Topical, Systemic and Combined Application of Antioxidants on the Barrier Properties of the Human Skin. *Skin Pharmacology and Physiology*, **2016**, 29, 41-6	3	25
198	Comparison of two in vitro models for the analysis of follicular penetration and its prevention by barrier emulsions. *European Journal of Pharmaceutics and Biopharmaceutics*, **2009**, 72, 600-4	5.7	25
197	A Randomized Controlled Trial of Green Tea Beverages on the in vivo Radical Scavenging Activity in Human Skin. *Skin Pharmacology and Physiology*, **2017**, 30, 225-233	3	24
196	Dose-dependent vitamin C uptake and radical scavenging activity in human skin measured with in vivo electron paramagnetic resonance spectroscopy. *Skin Pharmacology and Physiology*, **2013**, 26, 147-54	3	24
195	Radical protection in the visible and infrared by a hyperforin-rich cream--in vivo versus ex vivo methods. *Experimental Dermatology*, **2013**, 22, 354-7	4	24
194	Depth-dependent autofluorescence photobleaching using 325, 473, 633, and 785´nm of porcine ear skin ex vivo. *Journal of Biomedical Optics*, **2017**, 22, 91503	3.5	23
193	Confocal Raman microscopy for investigating the penetration of various oils into the human skin in vivo. *Journal of Dermatological Science*, **2015**, 79, 176-8	4.3	23
192	Age related depth profiles of human Stratum Corneum barrier-related molecular parameters by confocal Raman microscopy in vivo. *Mechanisms of Ageing and Development*, **2018**, 172, 6-12	5.6	23
191	Triggered release of model drug from AuNP-doped BSA nanocarriers in hair follicles using IRA radiation. *Acta Biomaterialia*, **2016**, 30, 388-396	10.8	23
190	Enhancement of skin radical scavenging activity and stratum corneum lipids after the application of a hyperforin-rich cream. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 86, 227-33	5.7	23
189	Kinetics of carotenoid distribution in human skin in vivo after exogenous stress: disinfectant and wIRA-induced carotenoid depletion recovers from outside to inside. *Journal of Biomedical Optics*, **2011**, 16, 035002	3.5	23
188	Radical-Scavenging Activity of a Sunscreen Enriched by Antioxidants Providing Protection in the Whole Solar Spectral Range. *Skin Pharmacology and Physiology*, **2017**, 30, 81-89	3	22
187	Evaluation of carotenoids and reactive oxygen species in human skin after UV irradiation: a critical comparison between in vivo and ex vivo investigations. *Experimental Dermatology*, **2015**, 24, 194-7	4	22
186	Comparison of human and porcine skin for characterization of sunscreens. *Journal of Biomedical Optics*, **2009**, 14, 024027	3.5	22
185	Influence of the vehicle on the penetration of particles into hair follicles. *Pharmaceutics*, **2011**, 3, 307-14	6.4	21
184	Effects of a topically applied wound ointment on epidermal wound healing studied by in vivo fluorescence laser scanning microscopy analysis. *Journal of Biomedical Optics*, **2009**, 14, 054001	3.5	21
183	High-energy visible light at ambient doses and intensities induces oxidative stress of skin-Protective effects of the antioxidant and Nrf2 inducer Licochalcone A in vitro and in vivo. *Photodermatology Photoimmunology and Photomedicine*, **2020**, 36, 135-144	2.4	21
182	Comparison of morphologic criteria for actinic keratosis and squamous cell carcinoma using in vivo multiphoton tomography. *Experimental Dermatology*, **2016**, 25, 218-22	4	21

181	Synthesis and Validation of Functional Nanogels as pH-Sensors in the Hair Follicle. *Macromolecular Bioscience*, **2017**, 17, 1600505	5.5	20
180	Investigation of the cutaneous penetration behavior of dexamethasone loaded to nano-sized lipid particles by EPR spectroscopy, and confocal Raman and laser scanning microscopy. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 116, 102-110	5.7	20
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178	Strategy of topical vaccination with nanoparticles. *Journal of Biomedical Optics*, **2009**, 14, 021001	3.5	20
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174	Anti-aging data and support claims--consensus statement. *JDDG - Journal of the German Society of Dermatology*, **2011**, 9 Suppl 3, S1-32	1.2	19
173	Raman spectroscopic analysis of the increase of the carotenoid antioxidant concentration in human skin after a 1-week diet with ecological eggs. *Journal of Biomedical Optics*, **2009**, 14, 024039	3.5	19
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