

Cornelia M Keck

List of Publications by Year in descending order

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115
papers

6,559
citations

101384

36
h-index

64668

79
g-index

120
all docs

120
docs citations

120
times ranked

6223
citing authors

#	ARTICLE	IF	CITATIONS
1	Drug nanocrystals of poorly soluble drugs produced by high pressure homogenisation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006, 62, 3-16.	2.0	888
2	Challenges and solutions for the delivery of biotech drugs – a review of drug nanocrystal technology and lipid nanoparticles. <i>Journal of Biotechnology</i> , 2004, 113, 151-170.	1.9	673
3	State of the art of nanocrystals – Special features, production, nanotoxicology aspects and intracellular delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 78, 1-9.	2.0	569
4	20 Years of Lipid Nanoparticles (SLN & NLC): Present State of Development & Industrial Applications. <i>Current Drug Discovery Technologies</i> , 2011, 8, 207-227.	0.6	410
5	Production and characterization of Hesperetin nanosuspensions for dermal delivery. <i>International Journal of Pharmaceutics</i> , 2009, 371, 182-189.	2.6	262
6	Polyhydroxy surfactants for the formulation of lipid nanoparticles (SLN and NLC): Effects on size, physical stability and particle matrix structure. <i>International Journal of Pharmaceutics</i> , 2011, 406, 163-172.	2.6	261
7	Development of an oral rutin nanocrystal formulation. <i>International Journal of Pharmaceutics</i> , 2009, 370, 202-209.	2.6	211
8	Natural Nanoparticles: A Particular Matter Inspired by Nature. <i>Antioxidants</i> , 2018, 7, 3.	2.2	148
9	Nanotoxicological classification system (NCS) – A guide for the risk-benefit assessment of nanoparticulate drug delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 445-448.	2.0	144
10	Kinetic solubility and dissolution velocity of rutin nanocrystals. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 36, 502-510.	1.9	141
11	Size analysis of submicron particles by laser diffractometry – 90% of the published measurements are false. <i>International Journal of Pharmaceutics</i> , 2008, 355, 150-163.	2.6	117
12	Preservation of nanostructured lipid carriers (NLC). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 76, 56-67.	2.0	114
13	Development of Curcumin Nanocrystal: Physical Aspects. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 204-214.	1.6	111
14	Twenty years of drug nanocrystals: Where are we, and where do we go?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 1-3.	2.0	105
15	Drug Delivery to the Brain – Realization by Novel Drug Carriers. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 471-483.	0.9	91
16	Solid lipid nanoparticles (SLN) stabilized with polyhydroxy surfactants: Preparation, characterization and physical stability investigation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 444, 15-25.	2.3	87
17	Skin photoprotection improvement: Synergistic interaction between lipid nanoparticles and organic UV filters. <i>International Journal of Pharmaceutics</i> , 2011, 414, 276-284.	2.6	84
18	Ultra-small NLC for improved dermal delivery of coenzyme Q10. <i>International Journal of Pharmaceutics</i> , 2013, 447, 213-217.	2.6	73

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19	Development of a positively charged prednicarbate nanoemulsion. <i>International Journal of Pharmaceutics</i> , 2010, 383, 201-208.	2.6	66
20	Nanocrystals of medium soluble actives – Novel concept for improved dermal delivery and production strategy. <i>International Journal of Pharmaceutics</i> , 2014, 470, 141-150.	2.6	62
21	Development of cationic nanocrystals for ocular delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 107, 215-222.	2.0	62
22	Amorphous cyclosporin A nanoparticles for enhanced dermal bioavailability. <i>International Journal of Pharmaceutics</i> , 2016, 498, 217-224.	2.6	62
23	Nanoemulsions produced by rotor – stator high speed stirring. <i>International Journal of Pharmaceutics</i> , 2015, 482, 110-117.	2.6	60
24	Ultra-small lipid nanoparticles promote the penetration of coenzyme Q10 in skin cells and counteract oxidative stress. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 201-207.	2.0	60
25	Formulation of solid lipid nanoparticles (SLN): The value of different alkyl polyglucoside surfactants. <i>International Journal of Pharmaceutics</i> , 2014, 474, 33-41.	2.6	59
26	Nanocrystals for improved dermal drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 128, 170-178.	2.0	54
27	Natural selenium particles from <i>Staphylococcus carnosus</i> : Hazards or particles with particular promise?. <i>Journal of Hazardous Materials</i> , 2017, 324, 22-30.	6.5	49
28	Hair follicle targeting with curcumin nanocrystals: Influence of the formulation properties on the penetration efficacy. <i>Journal of Controlled Release</i> , 2021, 329, 598-613.	4.8	49
29	Particle size analysis of nanocrystals: Improved analysis method. <i>International Journal of Pharmaceutics</i> , 2010, 390, 3-12.	2.6	48
30	Simple low-cost miniaturization approach for pharmaceutical nanocrystals production. <i>International Journal of Pharmaceutics</i> , 2016, 501, 236-244.	2.6	45
31	Formulation development of lipid nanoparticles: Improved lipid screening and development of tacrolimus loaded nanostructured lipid carriers (NLC). <i>International Journal of Pharmaceutics</i> , 2020, 576, 118918.	2.6	45
32	In vitro Inhibition of Fungal Activity by Macrophage – Mediated Sequestration and Release of Encapsulated Amphotericin B Nanosuspension in Red Blood Cells. <i>Small</i> , 2010, 6, 96-103.	5.2	44
33	Dermal nanocrystals from medium soluble actives – Physical stability and stability affecting parameters. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 85-91.	2.0	42
34	Rutin – Increased Antioxidant Activity and Skin Penetration by Nanocrystal Technology (smartCrystals). <i>Cosmetics</i> , 2016, 3, 9.	1.5	39
35	Oil-enriched, ultra-small nanostructured lipid carriers (usNLC): A novel delivery system based on flip – flop structure. <i>International Journal of Pharmaceutics</i> , 2014, 477, 227-235.	2.6	38
36	Industrial concentrates of dermal hesperidin smartCrystals® – production, characterization & long-term stability. <i>International Journal of Pharmaceutics</i> , 2015, 482, 54-60.	2.6	37

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37	Nanostructured Lipid Carriers (NLC): The Second Generation of Solid Lipid Nanoparticles. , 2016, , 161-185.		37
38	Development of industrially feasible concentrated 30% and 40% nanoemulsions for intravenous drug delivery. Drug Development and Industrial Pharmacy, 2012, 38, 420-430.	0.9	35
39	Dermal miconazole nitrate nanocrystals â€“ formulation development, increased antifungal efficacy & skin penetration. International Journal of Pharmaceutics, 2017, 531, 350-359.	2.6	35
40	Silver-Nanolipid Complex for Application to Atopic Dermatitis Skin: Rheological Characterization, <l>In Vivo</l> Efficiency and Theory of Action. Journal of Biomedical Nanotechnology, 2009, 5, 428-436.	0.5	33
41	Preparation and tableting of long-term stable amorphous rutin using porous silica. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 113, 97-107.	2.0	33
42	A new concept for the treatment of atopic dermatitis: Silverâ€“nanolipid complex (sNLC). International Journal of Pharmaceutics, 2014, 462, 44-51.	2.6	32
43	No time to waste organic waste: Nanosizing converts remains of food processing into refined materials. Journal of Environmental Management, 2018, 210, 114-121.	3.8	32
44	Evaluation of a biosurfactant extract obtained from corn for dermal application. International Journal of Pharmaceutics, 2019, 564, 225-236.	2.6	32
45	Production and characterization of testosterone undecanoate-loaded NLC for oral bioavailability enhancement. Drug Development and Industrial Pharmacy, 2011, 37, 8-14.	0.9	31
46	Solidification of hesperidin nanosuspension by spray drying optimized by design of experiment (DoE). Drug Development and Industrial Pharmacy, 2018, 44, 1-12.	0.9	31
47	Hair Follicle Targeting and Dermal Drug Delivery with Curcumin Drug Nanocrystalsâ€“Essential Influence of Excipients. Nanomaterials, 2020, 10, 2323.	1.9	31
48	Second generation of drug nanocrystals for delivery of poorly soluble drugs: smartCrystal technology. European Journal of Pharmaceutical Sciences, 2008, 34, S20-S21.	1.9	29
49	ROS production and glutathione response in keratinocytes after application of Î²-carotene and VIS/NIR irradiation. Chemico-Biological Interactions, 2018, 280, 1-7.	1.7	28
50	Oral hesperidinâ€“Amorphization and improved dissolution properties by controlled loading onto porous silica. International Journal of Pharmaceutics, 2017, 518, 253-263.	2.6	27
51	Improved Dermal and Transdermal Delivery of Curcumin with SmartFilms and Nanocrystals. Molecules, 2021, 26, 1633.	1.7	27
52	Feedforward Inhibition and Synaptic Scaling â€“ Two Sides of the Same Coin?. PLoS Computational Biology, 2012, 8, e1002432.	1.5	26
53	Nanostructured lipid carriers as nitroxide depot system measured by electron paramagnetic resonance spectroscopy. International Journal of Pharmaceutics, 2011, 421, 364-369.	2.6	24
54	Turning Waste into Value: Nanosized Natural Plant Materials of Solanum incanum L. and Pterocarpus erinaceus Poir with Promising Antimicrobial Activities. Pharmaceutics, 2016, 8, 11.	2.0	24

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55	Outcomes of pneumatic dilation in achalasia: Extended follow-up of more than 25 years with a focus on manometric subtypes. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2018, 33, 1067-1074.	1.4	24
56	Destabilization Mechanism of Ionic Surfactant on Curcumin Nanocrystal against Electrolytes. <i>Scientia Pharmaceutica</i> , 2016, 84, 685-693.	0.7	23
57	Determination of nanostructures and drug distribution in lipid nanoparticles by single molecule microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 110, 31-38.	2.0	22
58	Flavonoid nanocrystals produced by ARTcrystal®-technology. <i>International Journal of Pharmaceutics</i> , 2015, 482, 27-37.	2.6	21
59	ARTcrystal® process for industrial nanocrystal production – Optimization of the ART MICCRA pre-milling step. <i>International Journal of Pharmaceutics</i> , 2014, 465, 388-395.	2.6	20
60	Hesperetin Nanocrystals Improve Mitochondrial Function in a Cell Model of Early Alzheimer Disease. <i>Antioxidants</i> , 2021, 10, 1003.	2.2	20
61	Nanocrystals: From Raw Material to the Final Formulated Oral Dosage Form - A Review. <i>Current Pharmaceutical Design</i> , 2015, 21, 4217-4228.	0.9	20
62	Cucumber-Derived Exosome-like Vesicles and PlantCrystals for Improved Dermal Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 476.	2.0	20
63	Protein Adsorption Patterns and Analysis on IV Nanoemulsions – The Key Factor Determining the Organ Distribution. <i>Pharmaceutics</i> , 2013, 5, 36-68.	2.0	19
64	Dermal Penetration Analysis of Curcumin in an ex vivo Porcine Ear Model Using Epifluorescence Microscopy and Digital Image Processing. <i>Skin Pharmacology and Physiology</i> , 2021, 34, 281-299.	1.1	19
65	Influence of lipid matrix composition on biopharmaceutical properties of lipid nanoparticles. <i>Journal of Controlled Release</i> , 2021, 338, 149-163.	4.8	18
66	CapsMorph® technology for oral delivery – theory, preparation and characterization. <i>International Journal of Pharmaceutics</i> , 2015, 482, 11-20.	2.6	17
67	Nanosizing Cynomorium: Thumbs up for Potential Antifungal Applications. <i>Inventions</i> , 2017, 2, 24.	1.3	17
68	Resuspendable Powders of Lyophilized Chalcogen Particles with Activity against Microorganisms. <i>Antioxidants</i> , 2018, 7, 23.	2.2	17
69	Investigating hesperetin nanocrystals with tailor-made sizes for the prevention and treatment of Alzheimer's disease. <i>Drug Delivery and Translational Research</i> , 2021, 11, 659-674.	3.0	16
70	Improved Antioxidant Capacity of Black Tea Waste Utilizing PlantCrystals. <i>Molecules</i> , 2021, 26, 592.	1.7	16
71	Investigation of transfollicular caffeine penetration using microdialysis on ex vivo porcine ear skin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 157, 1-8.	2.0	15
72	Encapsulation by nanostructured lipid carriers. , 2017, , 114-137.		13

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73	Terahertz-spectroscopy for non-destructive determination of crystallinity of L-tartaric acid in smartFilms® and tablets made from paper. <i>International Journal of Pharmaceutics</i> , 2020, 581, 119253.	2.6	13
74	Are lipid nanoparticles really superior? A holistic proof of concept study. <i>Drug Delivery and Translational Research</i> , 2021, , 1.	3.0	13
75	Assessing the Dermal Penetration Efficacy of Chemical Compounds with the Ex-Vivo Porcine Ear Model. <i>Pharmaceutics</i> , 2022, 14, 678.	2.0	13
76	Influence of Massage and Skin Hydration on Dermal Penetration Efficacy of Nile Red from Petroleum Jelly – An Unexpected Outcome. <i>Pharmaceutics</i> , 2021, 13, 2190.	2.0	13
77	Nature's Hat-trick: Can we use sulfur springs as ecological source for materials with agricultural and medical applications?. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 678-686.	1.9	12
78	Tablets made from paper. <i>International Journal of Pharmaceutics</i> , 2018, 548, 812-819.	2.6	12
79	Milling the Mistletoe: Nanotechnological Conversion of African Mistletoe (<i>Loranthus micranthus</i>) Into antimicrobial Materials. <i>Antioxidants</i> , 2018, 7, 60.	2.2	12
80	smartPearls® for dermal bioavailability enhancement – Long-term stabilization of suspensions by viscoelasticity. <i>International Journal of Pharmaceutics</i> , 2019, 562, 293-302.	2.6	9
81	PlantCrystals – Nanosized Plant Material for Improved Bioefficacy of Medical Plants. <i>Materials</i> , 2020, 13, 4368.	1.3	9
82	Release of the model drug SR101 from polyurethane nanocapsules in porcine hair follicles triggered by LED-derived low dose UVA light. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120339.	2.6	9
83	Influence of mechanical skin treatment (massage, ultrasound, microdermabrasion, tape stripping and) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> <i>Pharmaceutics and Biopharmaceutics</i> , 2021, 169, 29-36.	2.0	9
84	The impact of skin massage frequency on the intrafollicular transport of silica nanoparticles: Validation of the ratchet effect on an ex vivo porcine skin model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 266-272.	2.0	9
85	Non-destructive crystallinity assessment of indomethacin in tablets made from smartFilms® using terahertz time-domain spectroscopy. <i>Scientific Reports</i> , 2022, 12, 6099.	1.6	9
86	Skin Care Product Rich in Antioxidants and Anti-Inflammatory Natural Compounds Reduces Itching and Inflammation in the Skin of Atopic Dermatitis Patients. <i>Antioxidants</i> , 2022, 11, 1071.	2.2	9
87	Nanosized selenium and <i>Loranthus micranthus</i> leaves ameliorate streptozotocin-induced hepato-renal dysfunction in rats via enhancement of antioxidant system, regulation of caspase 3 and Nrf2 protein expression. <i>PharmaNutrition</i> , 2019, 9, 100150.	0.8	8
88	Laser diffractometry of nanoparticles: frequent pitfalls & overlooked opportunities. <i>Journal of Pharmaceutical Technology & Drug Research</i> , 2013, 2, 17.	1.0	8
89	<i>Loranthus micranthus</i> nanoparticles abates streptozotocin-induced testicular dysfunction in Wistar rats: Involvement of glucose metabolism enzymes, oxidative-inflammatory stress, steroidogenic enzymes/protein and Nrf2 pathway. <i>Andrologia</i> , 2020, 52, e13749.	1.0	7
90	Pharmaceutical nanoparticles – From their innovative origin to their future. <i>International Journal of Pharmaceutics</i> , 2010, 390, 1-2.	2.6	6

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91	smartCrystals " Review of the Second Generation of Drug Nanocrystals. , 2011, , 555-580.		6
92	The "Real Environment" Quantification of Surface Hydrophobicity of Differently Stabilized Nanocrystals as Key Parameter for Organ Distribution. <i>Macromolecular Symposia</i> , 2014, 345, 32-41.	0.4	5
93	Preservation of rutin nanosuspensions without the use of preservatives. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1902-1913.	1.5	5
94	Identification of plant metabolite classes from <i>Waltheria Indica L.</i> extracts regulating inflammatory immune responses via COX-2 inhibition. <i>Journal of Ethnopharmacology</i> , 2021, 270, 113741.	2.0	5
95	Production and Characterization of Sumac PlantCrystals: Influence of High-Pressure Homogenization on Antioxidant Activity of Sumac (<i>Rhus coriaria L.</i>). <i>Plants</i> , 2021, 10, 1051.	1.6	5
96	The antioxidant Rutin counteracts the pathological impact of α -synuclein on the enteric nervous system <i>in vitro</i> . <i>Biological Chemistry</i> , 2022, 403, 103-122.	1.2	5
97	WoCoVA consensus on the clinical use of in-line filtration during intravenous infusions: Current evidence and recommendations for future research. <i>Journal of Vascular Access</i> , 2022, 23, 179-191.	0.5	5
98	Nanocrystals for Passive Dermal Penetration Enhancement. , 2016, , 283-295.		5
99	Methoxy-Monobenzoylmethane Protects Human Skin against UV-Induced Damage by Conversion to Avobenzone and Radical Scavenging. <i>Molecules</i> , 2021, 26, 6141.	1.7	5
100	Time to rethink filtration. <i>British Journal of Nursing</i> , 2016, 25, 1-12.	0.3	4
101	Upcycling Culinary Organic Waste: Production of Plant Particles from Potato and Carrot Peels to Improve Antioxidative Capacity. <i>Current Nutraceuticals</i> , 2021, 2, 62-70.	0.1	4
102	Microdialysis on Ex Vivo Porcine Ear Skin Can Validly Study Dermal Penetration including the Fraction of Transfollicular Penetration" Demonstrated on Caffeine Nanocrystals. <i>Nanomaterials</i> , 2021, 11, 2387.	1.9	4
103	Activity-Guided Characterization of COX-2 Inhibitory Compounds in <i>Waltheria indica L.</i> Extracts. <i>Molecules</i> , 2021, 26, 7240.	1.7	4
104	Particle-Assisted Dermal Penetration" A Simple Formulation Strategy to Foster the Dermal Penetration Efficacy. <i>Pharmaceutics</i> , 2022, 14, 1039.	2.0	4
105	Nanocapsule formation by nanocrystals. , 2017, , 165-186.		3
106	Shea butter (<i>Vitellaria paradoxa</i>) and <i>Pentaclethra macrophylla</i> oil as lipids in the formulation of Nanostructured lipid carriers. <i>Scientific African</i> , 2021, 13, e00965.	0.7	3
107	Static Image Analysis as New Approach for the Characterization of Tumor Cell Lysate Used in Dendritic Cell Vaccine Preparation. <i>Transfusion Medicine and Hemotherapy</i> , 2015, 42, 122-128.	0.7	2
108	Nanocrystals for Dermal Application. , 2019, , 161-177.		2

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109	Characterization of Nanosized Drug Carriers by Analytical Centrifugation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700962.	0.8	1
110	Fingerprint of Nature's Skin Penetration Analysis of a Stinging Nettle Plant Crystals Formulation. <i>Cosmetics</i> , 2021, 8, 21.	1.5	1
111	Methoxy-Monobenzoylethane Protects Skin from UV-Induced Damages in a Randomized, Placebo Controlled, Double-Blinded Human In Vivo Study and Prevents Signs of Inflammation While Improving the Skin Barrier. <i>Dermatology and Therapy</i> , 2022, 12, 435-449.	1.4	1
112	Assessing the Oxidative State of the Skin by Combining Classical Tape Stripping with ORAC Assay. <i>Pharmaceuticals</i> , 2022, 15, 520.	1.7	1
113	Characterization of Nanoparticles for Cosmetic Applications. , 2019, , 181-198.		0
114	THz TDS of SmartFilms® Loaded with Indomethacin. , 2021, , .		0
115	Potential of THz-TDS for Crystallinity State Inspection of Active Pharmaceutical Ingredients in SmartFilms®. , 2020, , .		0