Dana Kralisch

List of Publications by Year
in descending order

57 papers	3,718 citations	172457 29 h-index	175258 52 g-index
63 all docs	63 docs citations	63 times ranked	4443 citing authors

#	Article	IF	Citations
1	Bacterial Celluloseâ€"Adaptation of a Nature-Identical Material to the Needs of Advanced Chronic Wound Care. Pharmaceuticals, 2022, 15, 683.	3.8	9
2	Bacterial Cellulose as Drug Delivery System for Optimizing Release of Immune Checkpoint Blocking Antibodies. Pharmaceutics, 2022, 14, 1351.	4.5	8
3	Overcoming the hydrophilicity of bacterial nanocellulose: Incorporation of the lipophilic coenzyme Q10 using lipid nanocarriers for dermal applications. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 106-112.	4.3	9
4	Controlled Release of the Î±-Tocopherol-Derived Metabolite Î±-13â€²-Carboxychromanol from Bacterial Nanocellulose Wound Cover Improves Wound Healing. Nanomaterials, 2021, 11, 1939.	4.1	12
5	Bacterial nanocellulose as novel carrier for intestinal epithelial cells in drug delivery studies. Materials Science and Engineering C, 2020, 109, 110613.	7.3	18
6	Development and characterization of bacterial nanocellulose loaded with Boswellia serrata extract containing nanoemulsions as natural dressing for skin diseases. International Journal of Pharmaceutics, 2020, 587, 119635.	5.2	18
7	Modified Bacterial Cellulose Dressings to Treat Inflammatory Wounds. Nanomaterials, 2020, 10, 2508.	4.1	12
8	Process control and scale-up of modified bacterial cellulose production for tailor-made anti-inflammatory drug delivery systems. Carbohydrate Polymers, 2020, 236, 116062.	10.2	49
9	Risk and life cycle assessment of nanoparticles for medical applications prepared using safe- and benign-by-design gas-phase syntheses. Green Chemistry, 2020, 22, 814-827.	9.0	16
10	Thermosensitive hydrogels as sustained drug delivery system for CTLA-4 checkpoint blocking antibodies. Journal of Controlled Release, 2020, 323, 1-11.	9.9	47
11	Opportunities of Bacterial Cellulose to Treat Epithelial Tissues. Current Drug Targets, 2019, 20, 808-822.	2.1	41
12	Tailor-made material characteristics of bacterial cellulose for drug delivery applications in dentistry. Carbohydrate Polymers, 2019, 207, 1-10.	10.2	79
13	Immobilization of plasmids in bacterial nanocellulose as gene activated matrix. Carbohydrate Polymers, 2019, 209, 62-73.	10.2	23
14	Nanocellulose as a natural source for groundbreaking applications in materials science: Todayâ€™s state. Materials Today, 2018, 21, 720-748.	14.2	625
15	The need for innovation management and decision guidance in sustainable process design. Journal of Cleaner Production, 2018, 172, 2374-2388.	9.3	22
16	Bacterial nanocellulose stimulates mesenchymal stem cell expansion and formation of stable collagen-I networks as a novel biomaterial in tissue engineering. Scientific Reports, 2018, 8, 9401.	3.3	35
17	Bacterial nanocellulose: the future of controlled drug delivery?. Therapeutic Delivery, 2017, 8, 753-761.	2.2	47
18	Controlled extended octenidine release from a bacterial nanocellulose/Poloxamer hybrid system. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 112, 164-176.	4.3	86

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19	Toward a Framework for Resource Efficiency Evaluation in Industry: Recommendations for Research and Innovation Projects. Resources, 2017, 6, 5.	3.5	11
20	Sustainability lessons from practice: how flow intensification can trigger sustainability and modular plant technology in EU projects. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 483-500.	1.5	3
21	Green catalysis by nanoparticulate catalysts developed for flow processing? Case study of glucose hydrogenation. RSC Advances, 2015, 5, 15898-15908.	3.6	20
22	Antimicrobial functionalization of bacterial nanocellulose by loading with polihexanide and povidone-iodine. Journal of Materials Science: Materials in Medicine, 2015, 26, 245.	3.6	70
23	Rules and benefits of Life Cycle Assessment in green chemical process and synthesis design: a tutorial review. Green Chemistry, 2015, 17, 123-145.	9.0	201
24	Life Cycle Analysis within Pharmaceutical Process Optimization and Intensification: Case Study of Active Pharmaceutical Ingredient Production. ChemSusChem, 2014, 7, 3521-3533.	6.8	74
25	Life Cycle Cost Analysis as Decision Support Tool in Chemical Process Development. ChemBioEng Reviews, 2014, 1, 50-56.	4.4	14
26	10. From green chemistry principles in flow chemistry towards green flow process design in the holistic viewpoint. , 2014, , 283-312.		0
27	Loading of bacterial nanocellulose hydrogels with proteins using a high-speed technique. Carbohydrate Polymers, 2014, 106, 410-413.	10.2	26
28	Eco-efficiency Analysis for Intensified Production of an Active Pharmaceutical Ingredient: A Case Study. Organic Process Research and Development, 2014, 18, 1326-1338.	2.7	28
29	Bacterial nanocellulose with a shape-memory effect as potential drug delivery system. RSC Advances, 2014, 4, 57173-57184.	3.6	37
30	Active wound dressings based on bacterial nanocellulose as drug delivery system for octenidine. International Journal of Pharmaceutics, 2014, 471, 45-55.	5.2	205
31	Bridging sustainability and intensified flow processing within process design for sustainable future factories. Green Processing and Synthesis, 2013, 2, .	3.4	4
32	Agile Green Process Design for the Intensified Kolbeâ€"Schmitt Synthesis by Accompanying (Simplified) Life Cycle Assessment. Environmental Science & Technology, 2013, 47, 5362-5371.	10.0	30
33	The Biopolymer Bacterial Nanocellulose as Drug Delivery System: Investigation of Drug Loading and Release using the Model Protein Albumin. Journal of Pharmaceutical Sciences, 2013, 102, 579-592.	3.3	163
34	Novel Process Windows for Enabling, Accelerating, and Uplifting Flow Chemistry. ChemSusChem, 2013, 6, 746-789.	6.8	521
35	Antimicrobial porous hybrids consisting of bacterial nanocellulose and silver nanoparticles. Cellulose, 2013, 20, 771-783.	4.9	83
36	Process design accompanying life cycle management and risk analysis as a decision support tool for sustainable biodiesel production. Green Chemistry, 2013, 15, 463-477.	9.0	52

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37	Life Cycle Cost Analysis for Decision Support in Chemical Process Development. Chemie-Ingenieur-Technik, 2013, 85, 447-454.	0.8	1
38	Life Cycle Assessment of Microreaction Technology Versus Batch Technology - A Case Study. , 2013, , 295-307.		0
39	Evaluation of different micromixers by CFD simulations for the anionic polymerisation of styrene. Green Processing and Synthesis, 2012, 1, .	3.4	5
40	Laboratory profile of the research group â€œGreen Process Design and Evaluationâ€•at the Friedrich Schiller University Jena. Green Processing and Synthesis, 2012, 1, .	3.4	0
41	Removal and renewal of catalytic coatings from lab- and pilot-scale microreactors, accompanied by life cycle assessment and cost analysis. Green Chemistry, 2012, 14, 3034.	9.0	17
42	In Situ Synthesis of Photocatalytically Active Hybrids Consisting of Bacterial Nanocellulose and Anatase Nanoparticles. Langmuir, 2012, 28, 13518-13525.	3.5	45
43	Transfer of the Epoxidation of Soybean Oil from Batch to Flow Chemistry Guided by Cost and Environmental Issues. ChemSusChem, 2012, 5, 300-311.	6.8	55
44	Decision support towards agile eco-design of microreaction processes by accompanying (simplified) life cycle assessment. Green Chemistry, 2011, 13, 1694.	9.0	32
45	Tailor-made microdevices for maximizing process intensification and productivity through advanced heating. Chemical Engineering Journal, 2011, 167, 510-518.	12.7	12
46	White biotechnology for cellulose manufacturingâ€"The HoLiR concept. Biotechnology and Bioengineering, 2010, 105, 740-747.	3.3	89
47	Entwicklung nachhaltiger chemischer Prozesse - Vom Konzept zur Umsetzung. Chemie-Ingenieur-Technik, 2010, 82, 1435-1435.	0.8	0
48	Das HoLiR-Konzept zur Gewinnung bakteriell synthetisierter Nanocellulose. Chemie-Ingenieur-Technik, 2010, 82, 1516-1516.	0.8	0
49	Microwaveâ€Assisted Kolbeâ€Schmitt Synthesis Using Ionic Liquids or Dimcarb as Reactive Solvents. Chemical Engineering and Technology, 2009, 32, 1730-1738.	1.5	37
50	Environmentally Benign Microreaction Process Design by Accompanying (Simplified) Life Cycle Assessment. Chemical Engineering and Technology, 2009, 32, 1757-1765.	1.5	39
51	Conversion of carbohydrates into 5-hydroxymethylfurfural in highly concentrated low melting mixtures. Green Chemistry, 2009, 11, 1948.	9.0	264
52	Evaluating the greenness of alternative reaction media. Green Chemistry, 2008, 10, 1170.	9.0	107
53	Sustainability through green processing â€" novel process windows intensify micro and milli process technologies. Energy and Environmental Science, 2008, 1, 467.	30.8	83
54	Implementing objectives of sustainability into ionic liquids research and development. Green Chemistry, 2007, 9, 1308.	9.0	45

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55	Assessment of the ecological potential of microreaction technology. Chemical Engineering Science, 2007, 62, 1094-1100.	3.8	60
56	Cost Analysis of a Commercial Manufacturing Process of a Fine Chemical Compound Using Micro Process Engineering. Chimia, 2006, 60, 611-617.	0.6	30
57	Energetic, environmental and economic balances: Spice up your ionic liquid research efficiency. Green Chemistry, 2005, 7, 301.	9.0	92