

Stefan Bossmann

List of Publications by Year in descending order

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105
papers

4,620
citations

236925

25
h-index

102487

66
g-index

107
all docs

107
docs citations

107
times ranked

6393
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range photoinduced electron transfer through a DNA helix. <i>Science</i> , 1993, 262, 1025-1029.	12.6	928
2	New Evidence against Hydroxyl Radicals as Reactive Intermediates in the Thermal and Photochemically Enhanced Fenton Reactions. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5542-5550.	2.5	510
3	Copper resistance is essential for virulence of <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1621-1626.	7.1	286
4	Characterization of starburst dendrimers by the EPR technique. 1. Copper complexes in water solution. <i>Journal of the American Chemical Society</i> , 1994, 116, 661-671.	13.7	243
5	Effects of storage temperature on airway exosome integrity for diagnostic and functional analyses. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1359478.	12.2	199
6	A/C magnetic hyperthermia of melanoma mediated by iron(0)/iron oxide core/shell magnetic nanoparticles: a mouse study. <i>BMC Cancer</i> , 2010, 10, 119.	2.6	193
7	Consolvency of poly(N-isopropylacrylamide) in mixed water-methanol solutions: a look at spin-labeled polymers. <i>Macromolecules</i> , 1992, 25, 6007-6017.	4.8	178
8	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. <i>ACS Omega</i> , 2018, 3, 2479-2491.	3.5	156
9	Acid-Functionalized Magnetic Nanoparticle as Heterogeneous Catalysts for Biodiesel Synthesis. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26020-26028.	3.1	130
10	Protease-Sensitive, Polymer-Caged Liposomes: A Method for Making Highly Targeted Liposomes Using Triggered Release. <i>ACS Nano</i> , 2011, 5, 2162-2175.	14.6	129
11	Cell-delivered magnetic nanoparticles caused hyperthermia-mediated increased survival in a murine pancreatic cancer model. <i>International Journal of Nanomedicine</i> , 2012, 7, 297.	6.7	111
12	Conosolvency of poly(N-isopropylacrylamide): a look at spin-labeled polymers in mixtures of water and tetrahydrofuran. <i>Macromolecules</i> , 1993, 26, 4577-4585.	4.8	109
13	Attenuation of Mouse Melanoma by A/C Magnetic Field after Delivery of Bi-Magnetic Nanoparticles by Neural Progenitor Cells. <i>ACS Nano</i> , 2010, 4, 7093-7104.	14.6	81
14	Ru(bpy) ₃ ²⁺ /TiO ₂ -Codoped Zeolites: Synthesis, Characterization, and the Role of TiO ₂ in Electron Transfer Photocatalysis. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5374-5382.	2.6	66
15	Magnetic-Fe ₃ O ₄ -nanoparticle-bound SN38 as carboxylesterase-cleavable prodrug for the delivery to tumors within monocytes/macrophages. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 444-455.	2.8	57
16	Copper-Boosting Compounds: a Novel Concept for Antimycobacterial Drug Discovery. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1089-1091.	3.2	56
17	Copper Complexation Screen Reveals Compounds with Potent Antibiotic Properties against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3727-3736.	3.2	55
18	8-Hydroxyquinolines Are Boosting Agents of Copper-Related Toxicity in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5765-5776.	3.2	54

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19	Luminescence Quenching of Ruthenium(II)-Tris(phenanthroline) by Cobalt(III)-Tris(phenanthroline) Bound to the Surface of Starburst Dendrimers. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5088-5093.	2.6	49
20	Identification of Surface-Exposed Protein Radicals and A Substrate Oxidation Site in A-Class Dye-Decolorizing Peroxidase from <i>Thermomonospora curvata</i> . <i>ACS Catalysis</i> , 2016, 6, 8036-8047.	11.2	48
21	Pulsed Magnetic Field Induced Fast Drug Release from Magneto Liposomes via Ultrasound Generation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11715-11722.	2.6	46
22	A Cell-Delivered and Cell-Activated SN38-Dextran Prodrug Increases Survival in a Murine Disseminated Pancreatic Cancer Model. <i>Small</i> , 2012, 8, 913-920.	10.0	38
23	Synthesis, Characterization, and First Application of High Molecular Weight Polyacrylic Acid Derivatives Possessing Perfluorinated Side Chains and Chemically Linked Pyrene Labels. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2215-2223.	2.6	36
24	Nitroxide-Labeled Ru(II) Polypyridyl Complexes as EPR Probes of Organized Systems. 3. Characterization of Starburst Dendrimers and Comparison to Photophysical Measurements. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13667-13674.	2.9	32
25	Hexagonal magnetite nanoprisms: preparation, characterization and cellular uptake. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4647-4653.	5.8	27
26	Magnetic Nanomaterials for Magnetically-Aided Drug Delivery and Hyperthermia. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2927.	2.5	27
27	Oxidative Degradation of Polyvinyl Alcohol by the Photochemically Enhanced Fenton Reaction. Evidence for the Formation of Super-Macromolecules. <i>Progress in Reaction Kinetics and Mechanism</i> , 2001, 26, 113-137.	2.1	25
28	Luminol-based bioluminescence imaging of mouse mammary tumors. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 223-228.	3.8	25
29	Nanoplatforms for highly sensitive fluorescence detection of cancer-related proteases. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 231-240.	2.9	25
30	An integrated platform for small-animal hyperthermia investigations under ultra-high-field MRI guidance. <i>International Journal of Hyperthermia</i> , 2018, 34, 341-351.	2.5	25
31	Early detection of pancreatic cancers in liquid biopsies by ultrasensitive fluorescence nanobiosensors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1823-1832.	3.3	25
32	Cells as delivery vehicles for cancer therapeutics. <i>Therapeutic Delivery</i> , 2014, 5, 555-567.	2.2	24
33	Carbon dioxide hydrogenation to aromatic hydrocarbons by using an iron/iron oxide nanocatalyst. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 760-769.	2.8	23
34	Design and characterization of gadolinium infused theranostic liposomes. <i>RSC Advances</i> , 2016, 6, 36898-36905.	3.6	23
35	Direct treatment versus indirect: Thermo-ablative and mild hyperthermia effects. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1638.	6.1	23
36	Ruthenium(ii)-tris-bipyridine/titanium dioxide codoped zeolite Y photocatalysts: II. Photocatalyzed degradation of the model pollutant 2,4-xylidine, evidence for percolation behavior. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 477-486.	2.9	22

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37	Ring opening of epoxidized methyl oleate using a novel acid-functionalized iron nanoparticle catalyst. <i>Green Chemistry</i> , 2012, 14, 136-142.	9.0	22
38	MspA Porinâ€™Gold Nanoparticle Assemblies: Enhanced Binding through a Controlled Cysteine Mutation. <i>Nano Letters</i> , 2008, 8, 1229-1236.	9.1	21
39	Early breast cancer screening using iron/iron oxide-based nanoplatfoms with sub-femtomolar limits of detection. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 364-373.	2.8	21
40	A self-contained enzyme activating prodrug cytotherapy for preclinical melanoma. <i>Molecular Biology Reports</i> , 2012, 39, 157-165.	2.3	20
41	Synthesis of Isothiocyanates: An Update. <i>Synthesis</i> , 2019, 51, 1746-1752.	2.3	20
42	Characterization of Nanostructured Surfaces Generated by Reconstitution of the Porin MspA from <i>Mycobacterium smegmatis</i> . <i>Small</i> , 2007, 3, 1084-1097.	10.0	19
43	Combinatorial phenotypic screen uncovers unrecognized family of extended thiourea inhibitors with copper-dependent anti-staphylococcal activity. <i>Metallomics</i> , 2016, 8, 412-421.	2.4	18
44	Experimental Investigation of Magnetic Nanoparticle-Enhanced Microwave Hyperthermia. <i>Journal of Functional Biomaterials</i> , 2017, 8, 21.	4.4	16
45	Quantification of Circulating Cell Free Mitochondrial DNA in Extracellular Vesicles with PicoGreenâ€™ in Liquid Biopsies: Fast Assessment of Disease/Trauma Severity. <i>Cells</i> , 2021, 10, 819.	4.1	16
46	Strategies for Large-Scale Synthesis of Coelenterazine for in Vivo Applications. <i>Synthesis</i> , 2014, 46, 646-652.	2.3	15
47	Cell Based Drug Delivery: <i>Micrococcus luteus</i> Loaded Neutrophils as Chlorhexidine Delivery Vehicles in a Mouse Model of Liver Abscesses in Cattle. <i>PLoS ONE</i> , 2015, 10, e0128144.	2.5	15
48	Nanostructuring of Carbon Surfaces by Deposition of a Channel-Forming Protein and Subsequent Polymerization of Methyl Methacrylate Prepolymers. <i>Nano Letters</i> , 2001, 1, 169-174.	9.1	14
49	Rationally designed peptide nanosponges for cell-based cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2555-2564.	3.3	14
50	Acid monolayer functionalized iron oxide nanoparticles as catalysts for carbohydrate hydrolysis. <i>Green Chemistry</i> , 2014, 16, 836-843.	9.0	13
51	Developing a xenograft human tumor model in immunocompetent mice. <i>Cancer Letters</i> , 2018, 412, 256-263.	7.2	13
52	Direct Observation of Gold Nanoparticle Assemblies with the Porin MspA on Mica. <i>ACS Nano</i> , 2009, 3, 462-466.	14.6	11
53	Stem cell-based photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1251-1258.	2.9	11
54	Point-of-care routine rapid screening: the future of cancer diagnosis?. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 107-109.	3.1	11

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55	Refined Insights in the Photochromic <i>spiro</i> -Dihydroindolizine/Betaine System. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9621-9629.	2.5	11
56	Insights from Theory and Experiment on the Photochromic <i>spiro</i> -Dihydropyrrolopyridazine/Betaine System. <i>Journal of Physical Chemistry A</i> , 2016, 120, 875-883.	2.5	11
57	A nanobiosensor for the detection of arginase activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 383-390.	3.3	11
58	Optimization of the photochemically initiated polymerization of methyl methacrylate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006, 45, 1001-1010.	3.6	10
59	Integrating Optical Fiber Bridges in Microfluidic Devices to Create Multiple Excitation/Detection Points for Single Cell Analysis. <i>Analytical Chemistry</i> , 2016, 88, 9920-9925.	6.5	10
60	Synthesis of turbostratic nanoscale graphene via chamber detonation of oxygen/acetylene mixtures. <i>Nano Select</i> , 2022, 3, 1054-1068.	3.7	10
61	Nanostructuring by Deposition of Protein Channels Formed on Carbon Surfaces. <i>Nano Letters</i> , 2002, 2, 1263-1268.	9.1	9
62	Reconstitution of a Porin from <i>Mycobacterium smegmatis</i> at HOPG covered with hydrophobic host layers. <i>Surface and Interface Analysis</i> , 2004, 36, 127-134.	1.8	9
63	Channel Blocking of MspA Revisited. <i>Langmuir</i> , 2013, 29, 308-315.	3.5	8
64	Incorporating ¹³¹ I into a PAMAM (G5.0) dendrimer-conjugate: design of a theranostic nanosensor for medullary thyroid carcinoma. <i>RSC Advances</i> , 2017, 7, 16181-16188.	3.6	8
65	Glyco-nanotechnology: A biomedical perspective. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 42, 102542.	3.3	8
66	Ruthenium(II)-tris-bipyridine/titanium dioxide codoped zeolite Y photocatalyst: Performance optimization using 2,4-xylidine (1-amino-2,4-dimethyl-benzene). <i>Separation and Purification Technology</i> , 2009, 67, 201-207.	7.9	7
67	A New Heterogeneous Photocathode Based on Ruthenium(II)quaterpyridinium Complexes at TiO ₂ Particles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22763-22772.	3.1	7
68	Competitive Nucleophilic Attack Chemistry Based on Undecenoic Acid: A New Chemical Route for Plant-Oil-Based Epoxies. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5718-5729.	6.7	7
69	Peptide nanosponges designed for rapid uptake by leukocytes and neural stem cells. <i>RSC Advances</i> , 2018, 8, 16052-16060.	3.6	7
70	Simulation-based design and characterization of a microwave applicator for MR-guided hyperthermia experimental studies in small animals. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 015001.	1.2	7
71	Optical biosensing of markers of mucosal inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102476.	3.3	7
72	Pulsed XeCl Excimer Radiation for Optimizing the Polydispersity of Methyl Methacrylate Pre-Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 7436-7447.	3.7	6

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73	Design of highly porous Fe ₃ O ₄ @reduced graphene oxide via a facile PMAA-induced assembly. RSC Advances, 2019, 9, 27927-27936.	3.6	6
74	Peptide Nanosponges Designed for the Delivery of Perillyl Alcohol to Glioma Cells. ACS Applied Bio Materials, 2019, 2, 49-60.	4.6	6
75	Nano-Inspired Technologies for Peptide Delivery. Current Protein and Peptide Science, 2020, 21, 379-400.	1.4	6
76	Adaptation of Mycobacterium smegmatis to an Industrial Scale Medium and Isolation of the Mycobacterial Porin MspA. Open Microbiology Journal, 2013, 7, 92-98.	0.7	6
77	Nanoscope surfactant behavior of the porin MspA in aqueous media. Beilstein Journal of Nanotechnology, 2013, 4, 278-284.	2.8	5
78	Development of a Gene Delivery System Composed of a Cell-Penetrating Peptide and a Nontoxic Polymer. ACS Applied Bio Materials, 2020, 3, 7418-7427.	4.6	5
79	Liquid biopsies for early cancer detection. , 2020, , 233-259.		5
80	Pyrazolyl Thioureas and Carbothioamides with an NNSN Motif against MSSA and MRSA. ACS Omega, 2021, 6, 6088-6099.	3.5	5
81	Poly-N-Isopropyl-acrylamide/Acrylic Acid Copolymers for the Generation of Nanostructures on Mica Surfaces and as Hydrophobic Host Systems for the Porin MspA from Mycobacterium smegmatis. Journal of Physical Chemistry C, 2009, 113, 16485-16494.	3.1	4
82	Synergy of Iron Chelators and Therapeutic Peptide Sequences Delivered via a Magnetic Nanocarrier. Journal of Functional Biomaterials, 2017, 8, 23.	4.4	4
83	Isoselenocyanates: Synthesis and Their Use for Preparing Selenium-Based Heterocycles. Synthesis, 2021, 53, 2015-2028.	2.3	4
84	Increased volumes of lobule VI in a valproic acid model of autism are associated with worse set-shifting performance in male Long-Evan rats. Brain Research, 2021, 1765, 147495.	2.2	4
85	Early Detection of Pancreatic Cancers Using Liquid Biopsies and Hierarchical Decision Structure. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-8.	3.7	4
86	S-Layer Proteins in Bioelectronic Applications. , 2005, , 395-426.		3
87	New insights into the mechanisms of the thermal Fenton reactions occurring using different iron(II)-complexes. Water Science and Technology, 2004, 49, 75-80.	2.5	3
88	Fatty Acid Chain Combined with Cycloaliphatic Rings via Amberlyst [®] MB3: A Promising Structure for a High Biocontent Epoxy Design. Journal of Polymer Science Part A, 2017, 55, 794-800.	2.3	2
89	Associations between activity of arginase or matrix metalloproteinase-8 (MMP-8) and metritis in periparturient dairy cattle. Theriogenology, 2017, 97, 83-88.	2.1	2
90	An Optimized Nontoxic Electrolytic Etching Procedure for Fine Art Printmaking. Leonardo, 2021, 54, 427-432.	0.3	2

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91	CHAPTER 9. Magnetic Nanoformulations for Enhanced Drug Delivery and Retention. RSC Smart Materials, 2017, , 221-243.	0.1	2
92	Energy Transfer Systems for In Vivo Tracking. Methods in Molecular Biology, 2020, 2126, 45-55.	0.9	2
93	Host T Cell Dedifferentiation Effects Drive HIV-1 Latency Stability. Journal of Virology, 2022, 96, jvi0197421.	3.4	2
94	Mitochondrial Targeting Peptide-based Nanodelivery for Cancer Treatment. Current Protein and Peptide Science, 2022, 23, 657-671.	1.4	2
95	Characterization of the Outer Membrane of <i>M. Tuberculosis</i> with Atomic Force Microcopy Methods. ACS Symposium Series, 2008, , 199-215.	0.5	1
96	Fluorescence spectroscopy studies of crossed aldol reactions: a reactive Nile red dye reveals catalyst-dependent product formation. Catalysis Science and Technology, 2020, 10, 5579-5592.	4.1	1
97	Magnetic Resonance Imaging of Single Cells. Methods in Molecular Biology, 2020, 2126, 95-106.	0.9	1
98	System for delivering microwave ablation to subcutaneous tumors in small-animals under high-field MRI thermometry guidance. International Journal of Hyperthermia, 2022, 39, 584-594.	2.5	1
99	Photochemical Reactivity of Iron(III)-Doped Ruthenium(II)-tris- Bipyridine/Titanium Dioxide Zeolite Y Photocatalysts at High Substrate Concentrations. Journal of Advanced Oxidation Technologies, 2008, 11, .	0.5	0
100	A Catalyst-Free, Temperature-Driven One-Pot Synthesis of 1-Adamantylhydrazine Hydrochloride. Synthesis, 2020, 52, 3374-3377.	2.3	0
101	Designing a Cleavable Cell Surface Protein for Cytotherapy and Drug Delivery Applications. Applied Sciences (Switzerland), 2021, 11, 2792.	2.5	0
102	Protease-Activated Sensors for In Vivo Imaging of Cell Populations. Methods in Molecular Biology, 2020, 2126, 117-126.	0.9	0
103	Antibody-Targeted Magnetic Nanoparticles to Track Immune Cells In Vivo. Methods in Molecular Biology, 2020, 2126, 127-139.	0.9	0
104	Impacts of Behavioral Biases on Active Learning Strategies. , 2022, , .		0
105	Liquid Biopsy-Based Biomarkers of Inflammatory Nociception Identified in Male Rats. Frontiers in Pharmacology, 0, 13, .	3.5	0