

Stefan Bossmann

List of Publications by Year in descending order

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Version: 2024-02-01

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	Optical biosensing of markers of mucosal inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102476.	3.3	7
2	Host T Cell Dedifferentiation Effects Drive HIV-1 Latency Stability. <i>Journal of Virology</i> , 2022, 96, jvi0197421.	3.4	2
3	Impacts of Behavioral Biases on Active Learning Strategies. , 2022, , .		0
4	Glyco-nanotechnology: A biomedical perspective. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 42, 102542.	3.3	8
5	Synthesis of turbostratic nanoscale graphene via chamber detonation of oxygen/acetylene mixtures. <i>Nano Select</i> , 2022, 3, 1054-1068.	3.7	10
6	System for delivering microwave ablation to subcutaneous tumors in small-animals under high-field MRI thermometry guidance. <i>International Journal of Hyperthermia</i> , 2022, 39, 584-594.	2.5	1
7	Mitochondrial Targeting Peptide-based Nanodelivery for Cancer Treatment. <i>Current Protein and Peptide Science</i> , 2022, 23, 657-671.	1.4	2
8	Early Detection of Pancreatic Cancers Using Liquid Biopsies and Hierarchical Decision Structure. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022, 10, 1-8.	3.7	4
9	Isoselenocyanates: Synthesis and Their Use for Preparing Selenium-Based Heterocycles. <i>Synthesis</i> , 2021, 53, 2015-2028.	2.3	4
10	An Optimized Nontoxic Electrolytic Etching Procedure for Fine Art Printmaking. <i>Leonardo</i> , 2021, 54, 427-432.	0.3	2
11	Pyrazolyl Thioureas and Carbothioamides with an NNSN Motif against MSSA and MRSA. <i>ACS Omega</i> , 2021, 6, 6088-6099.	3.5	5
12	Designing a Cleavable Cell Surface Protein for Cytotherapy and Drug Delivery Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2792.	2.5	0
13	Quantification of Circulating Cell Free Mitochondrial DNA in Extracellular Vesicles with PicoGreen [®] in Liquid Biopsies: Fast Assessment of Disease/Trauma Severity. <i>Cells</i> , 2021, 10, 819.	4.1	16
14	Increased volumes of lobule VI in a valproic acid model of autism are associated with worse set-shifting performance in male Long-Evan rats. <i>Brain Research</i> , 2021, 1765, 147495.	2.2	4
15	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
16	Development of a Gene Delivery System Composed of a Cell-Penetrating Peptide and a Nontoxic Polymer. <i>ACS Applied Bio Materials</i> , 2020, 3, 7418-7427.	4.6	5
17	Fluorescence spectroscopy studies of crossed aldol reactions: a reactive Nile red dye reveals catalyst-dependent product formation. <i>Catalysis Science and Technology</i> , 2020, 10, 5579-5592.	4.1	1
18	A Catalyst-Free, Temperature-Driven One-Pot Synthesis of 1-Adamantylhydrazine Hydrochloride. <i>Synthesis</i> , 2020, 52, 3374-3377.	2.3	0

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19	Liquid biopsies for early cancer detection. , 2020, , 233-259.		5
20	Direct treatment versus indirect: Thermoablative and mild hyperthermia effects. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1638.	6.1	23
21	Magnetic Resonance Imaging of Single Cells. Methods in Molecular Biology, 2020, 2126, 95-106.	0.9	1
22	Nano-Inspired Technologies for Peptide Delivery. Current Protein and Peptide Science, 2020, 21, 379-400.	1.4	6
23	Protease-Activated Sensors for In Vivo Imaging of Cell Populations. Methods in Molecular Biology, 2020, 2126, 117-126.	0.9	0
24	Energy Transfer Systems for In Vivo Tracking. Methods in Molecular Biology, 2020, 2126, 45-55.	0.9	2
25	Antibody-Targeted Magnetic Nanoparticles to Track Immune Cells In Vivo. Methods in Molecular Biology, 2020, 2126, 127-139.	0.9	0
26	Magnetic Nanomaterials for Magnetically-Aided Drug Delivery and Hyperthermia. Applied Sciences (Switzerland), 2019, 9, 2927.	2.5	27
27	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
28	Synthesis of Isothiocyanates: An Update. Synthesis, 2019, 51, 1746-1752.	2.3	20
29	Peptide Nanosponges Designed for the Delivery of Perillyl Alcohol to Glioma Cells. ACS Applied Bio Materials, 2019, 2, 49-60.	4.6	6
30	High-Temperature Stress Alleviation by Selenium Nanoparticle Treatment in Grain Sorghum. ACS Omega, 2018, 3, 2479-2491.	3.5	156
31	An integrated platform for small-animal hyperthermia investigations under ultra-high-field MRI guidance. International Journal of Hyperthermia, 2018, 34, 341-351.	2.5	25
32	Developing a xenograft human tumor model in immunocompetent mice. Cancer Letters, 2018, 412, 256-263.	7.2	13
33	Early detection of pancreatic cancers in liquid biopsies by ultrasensitive fluorescence nanobiosensors. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1823-1832.	3.3	25
34	Peptide nanosponges designed for rapid uptake by leukocytes and neural stem cells. RSC Advances, 2018, 8, 16052-16060.	3.6	7
35	Fatty Acid Chain Combined with Cycloaliphatic Rings via Amberlyst 15: A Promising Structure for a High Biocontent Epoxy Design. Journal of Polymer Science Part A, 2017, 55, 794-800.	2.3	2
36	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

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37	Incorporating ¹³¹ I into a PAMAM (G5.0) dendrimer-conjugate: design of a theranostic nanosensor for medullary thyroid carcinoma. RSC Advances, 2017, 7, 16181-16188.	3.6	8
38	Effects of storage temperature on airway exosome integrity for diagnostic and functional analyses. Journal of Extracellular Vesicles, 2017, 6, 1359478.	12.2	199
39	Rationally designed peptide nanosponges for cell-based cancer therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2555-2564.	3.3	14
40	A nanobiosensor for the detection of arginase activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 383-390.	3.3	11
41	Experimental Investigation of Magnetic Nanoparticle-Enhanced Microwave Hyperthermia. Journal of Functional Biomaterials, 2017, 8, 21.	4.4	16
42	Synergy of Iron Chelators and Therapeutic Peptide Sequences Delivered via a Magnetic Nanocarrier. Journal of Functional Biomaterials, 2017, 8, 23.	4.4	4
43	CHAPTER 9. Magnetic Nanoformulations for Enhanced Drug Delivery and Retention. RSC Smart Materials, 2017, , 221-243.	0.1	2
44	Early breast cancer screening using iron/iron oxide-based nanoplatfoms with sub-femtomolar limits of detection. Beilstein Journal of Nanotechnology, 2016, 7, 364-373.	2.8	21
45	Design and characterization of gadolinium infused theranostic liposomes. RSC Advances, 2016, 6, 36898-36905.	3.6	23
46	Combinatorial phenotypic screen uncovers unrecognized family of extended thiourea inhibitors with copper-dependent anti-staphylococcal activity. Metallomics, 2016, 8, 412-421.	2.4	18
47	Competitive Nucleophilic Attack Chemistry Based on Undecenoic Acid: A New Chemical Route for Plant-Oil-Based Epoxies. ACS Sustainable Chemistry and Engineering, 2016, 4, 5718-5729.	6.7	7
48	8-Hydroxyquinolines Are Boosting Agents of Copper-Related Toxicity in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2016, 60, 5765-5776.	3.2	54
49	Integrating Optical Fiber Bridges in Microfluidic Devices to Create Multiple Excitation/Detection Points for Single Cell Analysis. Analytical Chemistry, 2016, 88, 9920-9925.	6.5	10
50	Identification of Surface-Exposed Protein Radicals and A Substrate Oxidation Site in A-Class Dye-Decolorizing Peroxidase from <i>Thermomonospora curvata</i> . ACS Catalysis, 2016, 6, 8036-8047.	11.2	48
51	Insights from Theory and Experiment on the Photochromic <i>spiro</i> -Dihydropyrrolo[2,1- <i>b</i>]pyridazine/Betaine System. Journal of Physical Chemistry A, 2016, 120, 875-883.	2.5	11
52	Cell Based Drug Delivery: <i>Micrococcus luteus</i> Loaded Neutrophils as Chlorhexidine Delivery Vehicles in a Mouse Model of Liver Abscesses in Cattle. PLoS ONE, 2015, 10, e0128144.	2.5	15
53	Hexagonal magnetite nanoprisms: preparation, characterization and cellular uptake. Journal of Materials Chemistry B, 2015, 3, 4647-4653.	5.8	27
54	Acid-Functionalized Magnetic Nanoparticle as Heterogeneous Catalysts for Biodiesel Synthesis. Journal of Physical Chemistry C, 2015, 119, 26020-26028.	3.1	130

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55	Refined Insights in the Photochromic <i>spiropyran</i> -Dihydroindolizine/Betaine System. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9621-9629.	2.5	11
56	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
57	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
58	Cells as delivery vehicles for cancer therapeutics. <i>Therapeutic Delivery</i> , 2014, 5, 555-567.	2.2	24
59	Strategies for Large-Scale Synthesis of Coelenterazine for in Vivo Applications. <i>Synthesis</i> , 2014, 46, 646-652.	2.3	15
60	Nanoplatforms for highly sensitive fluorescence detection of cancer-related proteases. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 231-240.	2.9	25
61	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
62	Acid monolayer functionalized iron oxide nanoparticles as catalysts for carbohydrate hydrolysis. <i>Green Chemistry</i> , 2014, 16, 836-843.	9.0	13
63	Luminol-based bioluminescence imaging of mouse mammary tumors. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 223-228.	3.8	25
64	Channel Blocking of MspA Revisited. <i>Langmuir</i> , 2013, 29, 308-315.	3.5	8
65	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
66	Copper-Boosting Compounds: a Novel Concept for Antimycobacterial Drug Discovery. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1089-1091.	3.2	56
67	Nanoscale surfactant behavior of the porin MspA in aqueous media. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 278-284.	2.8	5
68	Adaptation of <i>Mycobacterium smegmatis</i> to an Industrial Scale Medium and Isolation of the Mycobacterial Porin MspA. <i>Open Microbiology Journal</i> , 2013, 7, 92-98.	0.7	6
69	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
70	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
71	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
72	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

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73	Stem cell-based photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1251-1258.	2.9	11
74	A self-contained enzyme activating prodrug cytotherapy for preclinical melanoma. <i>Molecular Biology Reports</i> , 2012, 39, 157-165.	2.3	20
75	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
76	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
77	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
78	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
79	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
80	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
81	Direct Observation of Gold Nanoparticle Assemblies with the Porin MspA on Mica. <i>ACS Nano</i> , 2009, 3, 462-466.	14.6	11
82	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 <i>Mycobacterium smegmatis</i> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 16485-16494.	3.1	4
83	MspA Porin ⁺ Gold Nanoparticle Assemblies: Enhanced Binding through a Controlled Cysteine Mutation. <i>Nano Letters</i> , 2008, 8, 1229-1236.	9.1	21
84	Characterization of the Outer Membrane of <i>M. Tuberculosis</i> with Atomic Force Microscopy Methods. <i>ACS Symposium Series</i> , 2008, , 199-215.	0.5	1
85	Photochemical Reactivity of Iron(III)-Doped Ruthenium(II)-tris- Bipyridine/Titanium Dioxide Zeolite Y Photocatalysts at High Substrate Concentrations. <i>Journal of Advanced Oxidation Technologies</i> , 2008, 11, .	0.5	0
86	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
87	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
88	Optimization of the photochemically initiated polymerization of methyl methacrylate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006, 45, 1001-1010.	3.6	10
89	S-Layer Proteins in Bioelectronic Applications. , 2005, , 395-426.		3
90	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

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91	New insights into the mechanisms of the thermal Fenton reactions occurring using different iron(II)-complexes. <i>Water Science and Technology</i> , 2004, 49, 75-80.	2.5	3
92	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
93	Nanostructuring by Deposition of Protein Channels Formed on Carbon Surfaces. <i>Nano Letters</i> , 2002, 2, 1263-1268.	9.1	9
94	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
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	Long-range photoinduced electron transfer through a DNA helix. <i>Science</i> , 1993, 262, 1025-1029.	12.6	928
103	Cononsolvency 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
104	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
105	Liquid Biopsy-Based Biomarkers of Inflammatory Nociception Identified in Male Rats. <i>Frontiers in Pharmacology</i> , 0, 13, .	3.5	0