

Wendelin J Stark

List of Publications by Year in descending order

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245
papers

17,521
citations

15466

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h-index

15683

125
g-index

265
all docs

265
docs citations

265
times ranked

22011
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro Cytotoxicity of Oxide Nanoparticles: A Comparison to Asbestos, Silica, and the Effect of Particle Solubility. <i>Environmental Science & Technology</i> , 2006, 40, 4374-4381.	4.6	1,207
2	Exposure of Engineered Nanoparticles to Human Lung Epithelial Cells: Influence of Chemical Composition and Catalytic Activity on Oxidative Stress. <i>Environmental Science & Technology</i> , 2007, 41, 4158-4163.	4.6	785
3	The degree and kind of agglomeration affect carbon nanotube cytotoxicity. <i>Toxicology Letters</i> , 2007, 168, 121-131.	0.4	732
4	Oxide Nanoparticle Uptake in Human Lung Fibroblasts: Effects of Particle Size, Agglomeration, and Diffusion at Low Concentrations. <i>Environmental Science & Technology</i> , 2005, 39, 9370-9376.	4.6	725
5	Robust Chemical Preservation of Digital Information on DNA in Silica with Error-Correcting Codes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2552-2555.	7.2	458
6	Nanoparticles in Biological Systems. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1242-1258.	7.2	457
7	Polymer/bioactive glass nanocomposites for biomedical applications: A review. <i>Composites Science and Technology</i> , 2010, 70, 1764-1776.	3.8	451
8	Removal of Oxide Nanoparticles in a Model Wastewater Treatment Plant: Influence of Agglomeration and Surfactants on Clearing Efficiency. <i>Environmental Science & Technology</i> , 2008, 42, 5828-5833.	4.6	431
9	Nanoparticle cytotoxicity depends on intracellular solubility: Comparison of stabilized copper metal and degradable copper oxide nanoparticles. <i>Toxicology Letters</i> , 2010, 197, 169-174.	0.4	350
10	Nanoparticles as Semi-Heterogeneous Catalyst Supports. <i>Chemistry - A European Journal</i> , 2010, 16, 8950-8967.	1.7	341
11	Comparison of nanoscale and microscale bioactive glass on the properties of P(3HB)/Bioglass composites. <i>Biomaterials</i> , 2008, 29, 1750-1761.	5.7	305
12	Covalently Functionalized Cobalt Nanoparticles as a Platform for Magnetic Separations in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4909-4912.	7.2	301
13	Remineralization of human dentin using ultrafine bioactive glass particles. <i>Acta Biomaterialia</i> , 2007, 3, 936-943.	4.1	276
14	Graphene-stabilized copper nanoparticles as an air-stable substitute for silver and gold in low-cost ink-jet printable electronics. <i>Nanotechnology</i> , 2008, 19, 445201.	1.3	253
15	No Evidence for Cerium Dioxide Nanoparticle Translocation in Maize Plants. <i>Environmental Science & Technology</i> , 2010, 44, 8718-8723.	4.6	246
16	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. <i>Nano Letters</i> , 2017, 17, 5277-5284.	4.5	221
17	A Recyclable Nanoparticle-Supported Palladium Catalyst for the Hydroxycarbonylation of Aryl Halides in Water. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1867-1870.	7.2	209
18	Aerosol flame reactors for manufacture of nanoparticles. <i>Powder Technology</i> , 2002, 126, 103-108.	2.1	192

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19	Persistence of engineered nanoparticles in a municipal solid-waste incineration plant. <i>Nature Nanotechnology</i> , 2012, 7, 520-524.	15.6	186
20	Selective Chemical Modification of Graphene Surfaces: Distinction Between Single- and Bilayer Graphene. <i>Small</i> , 2010, 6, 1125-1130.	5.2	176
21	Accelerated mineralization of dense collagen-nano bioactive glass hybrid gels increases scaffold stiffness and regulates osteoblastic function. <i>Biomaterials</i> , 2011, 32, 8915-8926.	5.7	176
22	Fluoro-apatite and Calcium Phosphate Nanoparticles by Flame Synthesis. <i>Chemistry of Materials</i> , 2005, 17, 36-42.	3.2	174
23	Ultraporous 3D polymer meshes by low-temperature electrospinning: Use of ice crystals as a removable void template. <i>Polymer Engineering and Science</i> , 2007, 47, 2020-2026.	1.5	172
24	Carbon Modifications and Surfaces for Catalytic Organic Transformations. <i>ACS Catalysis</i> , 2012, 2, 1267-1284.	5.5	170
25	TEMPO Supported on Magnetic C/Co Nanoparticles: A Highly Active and Recyclable Organocatalyst. <i>Chemistry - A European Journal</i> , 2008, 14, 8262-8266.	1.7	167
26	Flame Aerosol Synthesis of Vanadia-Titania Nanoparticles: Structural and Catalytic Properties in the Selective Catalytic Reduction of NO by NH ₃ . <i>Journal of Catalysis</i> , 2001, 197, 182-191.	3.1	155
27	Gas phase synthesis of fcc-cobalt nanoparticles. <i>Journal of Materials Chemistry</i> , 2006, 16, 1825.	6.7	155
28	Flame-made platinum/alumina: structural properties and catalytic behaviour in enantioselective hydrogenation. <i>Journal of Catalysis</i> , 2003, 213, 296-304.	3.1	153
29	Glass and bioglass nanopowders by flame synthesis. <i>Chemical Communications</i> , 2006, , 1384.	2.2	150
30	Poly(3-hydroxybutyrate) multifunctional composite scaffolds for tissue engineering applications. <i>Biomaterials</i> , 2010, 31, 2806-2815.	5.7	149
31	Magnetic EDTA: coupling heavy metal chelators to metal nanomagnets for rapid removal of cadmium, lead and copper from contaminated water. <i>Chemical Communications</i> , 2009, , 4862.	2.2	145
32	Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites. <i>Journal of the Royal Society Interface</i> , 2010, 7, 453-465.	1.5	134
33	Synthesis and Covalent Surface Functionalization of Nonoxidic Iron Core-Shell Nanomagnets. <i>Chemistry of Materials</i> , 2009, 21, 3275-3281.	3.2	132
34	Flame synthesis of nanocrystalline ceria-zirconia: effect of carrier liquid. <i>Chemical Communications</i> , 2003, , 588-589.	2.2	122
35	Energy Consumption During Nanoparticle Production: How Economic is Dry Synthesis?. <i>Journal of Nanoparticle Research</i> , 2006, 8, 1-9.	0.8	118
36	In vivo and in vitro evaluation of flexible, cottonwool-like nanocomposites as bone substitute material for complex defects. <i>Acta Biomaterialia</i> , 2009, 5, 1775-1784.	4.1	115

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37	Highly Sensitive Optical Detection of Humidity on Polymer/Metal Nanoparticle Hybrid Films. <i>Langmuir</i> , 2007, 23, 3473-3477.	1.6	113
38	Blood Purification Using Functionalized Core/Shell Nanomagnets. <i>Small</i> , 2010, 6, 1388-1392.	5.2	113
39	A DNA-of-things storage architecture to create materials with embedded memory. <i>Nature Biotechnology</i> , 2020, 38, 39-43.	9.4	113
40	Microorganism-Triggered Release of Silver Nanoparticles from Biodegradable Oxide Carriers Allows Preparation of Self-Sterilizing Polymer Surfaces. <i>Small</i> , 2008, 4, 824-832.	5.2	112
41	Cotton wool-like nanocomposite biomaterials prepared by electrospinning: <i>in vitro</i> bioactivity and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 350-362.	1.6	111
42	Immobilization on a Nanomagnetic Co/C Surface Using ROM Polymerization: Generation of a Hybrid Material as Support for a Recyclable Palladium Catalyst. <i>Advanced Functional Materials</i> , 2010, 20, 4323-4328.	7.8	111
43	Direct synthesis of carbon quantum dots in aqueous polymer solution: one-pot reaction and preparation of transparent UV-blocking films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5187-5194.	5.2	111
44	Magnetically Recoverable, Thermostable, Hydrophobic DNA/Silica Encapsulates and Their Application as Invisible Oil Tags. <i>ACS Nano</i> , 2014, 8, 2677-2685.	7.3	104
45	Palladium Nanoparticles Supported on Magnetic Carbon-Coated Cobalt Nanobeads: Highly Active and Recyclable Catalysts for Alkene Hydrogenation. <i>Advanced Functional Materials</i> , 2014, 24, 2020-2027.	7.8	102
46	Flame synthesis of calcium-, strontium-, barium fluoride nanoparticles and sodium chloride. <i>Chemical Communications</i> , 2005, , 1767.	2.2	99
47	Effect of particle size, crystal phase and crystallinity on the reactivity of tricalcium phosphate cements for bone reconstruction. <i>Journal of Materials Chemistry</i> , 2007, 17, 4072.	6.7	99
48	Cu(II)-Azabis(oxazoline) Complexes Immobilized on Magnetic Co/C Nanoparticles: Kinetic Resolution of 1,2-Diphenylethane-1,2-diol under Batch and Continuous-Flow Conditions. <i>Chemistry of Materials</i> , 2010, 22, 305-310.	3.2	97
49	Bottom-up Fabrication of Metal/Metal Nanocomposites from Nanoparticles of Immiscible Metals. <i>Chemistry of Materials</i> , 2010, 22, 155-160.	3.2	93
50	Permanent Pattern-Resolved Adjustment of the Surface Potential of Graphene-Like Carbon through Chemical Functionalization. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 224-227.	7.2	92
51	Chemical Aerosol Engineering as a Novel Tool for Material Science: From Oxides to Salt and Metal Nanoparticles. <i>Aerosol Science and Technology</i> , 2010, 44, 161-172.	1.5	92
52	Flame-made nanocrystalline ceria/zirconia: structural properties and dynamic oxygen exchange capacity. <i>Journal of Catalysis</i> , 2003, 220, 35-43.	3.1	91
53	An Untethered, Jumping Roly-Poly Soft Robot Driven by Combustion. <i>Soft Robotics</i> , 2015, 2, 33-41.	4.6	87
54	Reading and writing digital data in DNA. <i>Nature Protocols</i> , 2020, 15, 86-101.	5.5	81

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55	Tissue engineered bone grafts based on biomimetic nanocomposite PLGA/amorphous calcium phosphate scaffold and human adipose-derived stem cells. <i>Injury</i> , 2012, 43, 1689-1697.	0.7	80
56	Flame-made nanocrystalline ceria/zirconia doped with alumina or silica: structural properties and enhanced oxygen exchange capacity. <i>Journal of Materials Chemistry</i> , 2003, 13, 2979.	6.7	77
57	Magnetothermally responsive C/Co@PNIPAM-nanoparticles enable preparation of self-separating phase-switching palladium catalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 2991.	6.7	76
58	Use of NIR light and upconversion phosphors in light-curable polymers. <i>Dental Materials</i> , 2012, 28, 304-311.	1.6	76
59	Improved degradation and bioactivity of amorphous aerosol derived tricalcium phosphate nanoparticles in poly(lactide-co-glycolide). <i>Nanotechnology</i> , 2006, 17, 2054-2061.	1.3	75
60	Flame-Made Pt/Ceria/Zirconia for Low-Temperature Oxygen Exchange. <i>Chemistry of Materials</i> , 2005, 17, 3352-3358.	3.2	72
61	Immobilized β -Cyclodextrin on Surface-Modified Carbon-Coated Cobalt Nanomagnets: Reversible Organic Contaminant Adsorption and Enrichment from Water. <i>Langmuir</i> , 2011, 27, 1924-1929.	1.6	70
62	Flexible, silver containing nanocomposites for the repair of bone defects: antimicrobial effect against <i>E. coli</i> infection and comparison to tetracycline containing scaffolds. <i>Journal of Materials Chemistry</i> , 2008, 18, 2679.	6.7	69
63	Soft Iron/Silicon Composite Tubes for Magnetic Peristaltic Pumping: Frequency-Dependent Pressure and Volume Flow. <i>Advanced Functional Materials</i> , 2013, 23, 3845-3849.	7.8	69
64	Functionalizing a dentin bonding resin to become bioactive. <i>Dental Materials</i> , 2014, 30, 868-875.	1.6	69
65	Organic Synthesis on Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 2297-2306.	7.6	68
66	Direct Combination of Nanoparticle Fabrication and Exposure to Lung Cell Cultures in a Closed Setup as a Method To Simulate Accidental Nanoparticle Exposure of Humans. <i>Environmental Science & Technology</i> , 2009, 43, 2634-2640.	4.6	67
67	A Soft Total Artificial Heart—First Concept Evaluation on a Hybrid Mock Circulation. <i>Artificial Organs</i> , 2017, 41, 948-958.	1.0	67
68	Low cost DNA data storage using photolithographic synthesis and advanced information reconstruction and error correction. <i>Nature Communications</i> , 2020, 11, 5345.	5.8	66
69	Phase transitions in amorphous calcium phosphates with different Ca/P ratios. <i>Thermochimica Acta</i> , 2008, 468, 75-80.	1.2	65
70	Elastomeric nanocomposites as cell delivery vehicles and cardiac support devices. <i>Soft Matter</i> , 2010, 6, 4715.	1.2	65
71	Combining Data Longevity with High Storage Capacity—Layer-by-Layer DNA Encapsulated in Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1901672.	7.8	65
72	Comparison of amorphous TCP nanoparticles to micron-sized β -TCP as starting materials for calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 400-407.	1.6	64

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73	MOF Channels within Porous Polymer Film: Flexible, Self-Supporting ZIF-8 Poly(ether sulfone) Composite Membrane. <i>Chemistry of Materials</i> , 2016, 28, 7638-7644.	3.2	63
74	Two-layer membranes of calcium phosphate/collagen/PLGA nanofibres: in vitro biomineralisation and osteogenic differentiation of human mesenchymal stem cells. <i>Nanoscale</i> , 2011, 3, 401-409.	2.8	61
75	Phosphate starvation as an antimicrobial strategy: the controllable toxicity of lanthanum oxide nanoparticles. <i>Chemical Communications</i> , 2012, 48, 3869.	2.2	58
76	Gold adsorption on the carbon surface of C/Co nanoparticles allows magnetic extraction from extremely diluted aqueous solutions. <i>Journal of Materials Chemistry</i> , 2009, 19, 8239.	6.7	57
77	Flame synthesis of calcium carbonate nanoparticles. <i>Chemical Communications</i> , 2005, , 648.	2.2	56
78	Functionalized Graphene-Coated Cobalt Nanoparticles for Highly Efficient Surface-Assisted Laser Desorption/Ionization Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2012, 84, 9268-9275.	3.2	56
79	High-strength metal nanomagnets for diagnostics and medicine: carbon shells allow long-term stability and reliable linker chemistry. <i>Nanomedicine</i> , 2009, 4, 787-798.	1.7	54
80	A Bioinspired Ultraporous Nanofiberâ€Hydrogel Mimic of the Cartilage Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2016, 5, 3129-3138.	3.9	54
81	Exposure of aerosols and nanoparticle dispersions to in vitro cell cultures: A review on the dose relevance of size, mass, surface and concentration. <i>Journal of Aerosol Science</i> , 2010, 41, 1123-1142.	1.8	52
82	Particles with an identity: Tracking and tracing in commodity products. <i>Powder Technology</i> , 2016, 291, 344-350.	2.1	52
83	Silica-Encapsulated DNA-Based Tracers for Aquifer Characterization. <i>Environmental Science & Technology</i> , 2018, 52, 12142-12152.	4.6	50
84	Large-Scale Synthesis of PbSâ€TiO₂ Heterojunction Nanoparticles in a Single Step for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16264-16270.	1.5	49
85	Palladium nanoparticles supported on ionic liquid modified, magnetic nanobeads â€ recyclable, high-capacity catalysts for alkene hydrogenation. <i>RSC Advances</i> , 2014, 4, 8541.	1.7	49
86	Hollow Silica as an Optically Transparent and Thermally Insulating Polymer Additive. <i>Langmuir</i> , 2016, 32, 338-345.	1.6	49
87	Flame Made Titania/Silica Epoxidation Catalysts. <i>Journal of Catalysis</i> , 2001, 203, 516-524.	3.1	46
88	Flame spray synthesis under a non-oxidizing atmosphere: Preparation of metallic bismuth nanoparticles and nanocrystalline bulk bismuth metal. <i>Journal of Nanoparticle Research</i> , 2006, 8, 729-736.	0.8	46
89	Endotoxin Removal by Magnetic Separationâ€Based Blood Purification. <i>Advanced Healthcare Materials</i> , 2013, 2, 829-835.	3.9	46
90	Effects of flame made zinc oxide particles in human lung cells - a comparison of aerosol and suspension exposures. <i>Particle and Fibre Toxicology</i> , 2012, 9, 33.	2.8	45

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91	3D printed lost-wax casted soft silicone monoblocks enable heart-inspired pumping by internal combustion. <i>RSC Advances</i> , 2014, 4, 16039-16042.	1.7	43
92	Device for continuous extracorporeal blood purification using target-specific metal nanomagnets. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 2948-2954.	0.4	42
93	Nanomagnet-based removal of lead and digoxin from living rats. <i>Nanoscale</i> , 2013, 5, 8718.	2.8	42
94	Biocompatibility and Bone Formation of Flexible, Cotton Wool-like PLGA/Calcium Phosphate Nanocomposites in Sheep. <i>The Open Orthopaedics Journal</i> , 2011, 5, 63-71.	0.1	42
95	Syngas production from butane using a flame-made Rh/Ce0.5Zr0.5O2 catalyst. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 336-344.	10.8	41
96	Particle Emission and Exposure during Nanoparticle Synthesis in Research Laboratories. <i>Annals of Occupational Hygiene</i> , 2009, 53, 829-38.	1.9	41
97	Surfactant-free, Melt-processable Metal-polymer Hybrid Materials: Use of Graphene as a Dispersing Agent. <i>Advanced Materials</i> , 2008, 20, 3044-3049.	11.1	40
98	Stable dispersions of ferromagnetic carbon-coated metal nanoparticles: preparation via surface initiated atom transfer radical polymerization. <i>Journal of Materials Chemistry</i> , 2012, 22, 12064.	6.7	40
99	Combined Covalent and Noncovalent Functionalization of Nanomagnetic Carbon Surfaces with Dendrimers and BODIPY Fluorescent Dye. <i>Chemistry of Materials</i> , 2011, 23, 3606-3613.	3.2	39
100	Physico-Chemical Differences Between Particle- and Molecule-Derived Toxicity: Can We Make Inherently Safe Nanoparticles?. <i>Chimia</i> , 2009, 63, 38.	0.3	38
101	Stabilizing synthetic DNA for long-term data storage with earth alkaline salts. <i>Chemical Communications</i> , 2020, 56, 3613-3616.	2.2	38
102	Comparative assessment of time-related bioactive glass and calcium hydroxide effects on mechanical properties of human root dentin. <i>Dental Traumatology</i> , 2009, 25, 126-129.	0.8	37
103	Incorporating microorganisms into polymer layers provides bioinspired functional living materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 90-94.	3.3	37
104	Soluble nanoparticles as removable pore templates for the preparation of polymer ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2012, 387-388, 76-82.	4.1	36
105	Safe One-Pot Synthesis of Fluorescent Carbon Quantum Dots from Lemon Juice for a Hands-On Experience of Nanotechnology. <i>Journal of Chemical Education</i> , 2019, 96, 540-545.	1.1	36
106	Porous Polymer Membranes by Hard Templating – A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1700611.	1.6	35
107	Tomographic Reservoir Imaging with DNA-Labeled Silica Nanotracers: The First Field Validation. <i>Environmental Science & Technology</i> , 2018, 52, 13681-13689.	4.6	35
108	Cerium oxide nanoparticle uptake kinetics from the gas-phase into lung cells in vitro is transport limited. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 368-375.	2.0	34

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109	Optimization of Bioglass [®] Scaffold Fabrication Process. Journal of the American Ceramic Society, 2011, 94, 4184-4190.	1.9	34
110	Incorporation of Penicillin [®] -Producing Fungi into Living Materials to Provide Chemically Active and Antibiotic [®] -Releasing Surfaces. Angewandte Chemie - International Edition, 2012, 51, 11293-11296.	7.2	34
111	Efficient Magnetic Recycling of Covalently Attached Enzymes on Carbon-Coated Metallic Nanomagnets. Bioconjugate Chemistry, 2014, 25, 677-684.	1.8	34
112	Preparation of nano-gypsum from anhydrite nanoparticles: Strongly increased Vickers hardness and formation of calcium sulfate nano-needles. Journal of Nanoparticle Research, 2007, 9, 275-281.	0.8	32
113	Fluorinated Groups Mediate the Immunomodulatory Effects of Volatile Anesthetics in Acute Cell Injury. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 617-624.	1.4	32
114	pH-dependent antibacterial effects on oral microorganisms through pure PLGA implants and composites with nanosized bioactive glass. Acta Biomaterialia, 2013, 9, 9118-9125.	4.1	32
115	Proliferation of ASC-derived endothelial cells in a 3D electrospun mesh: Impact of bone-biomimetic nanocomposite and co-culture with ASC-derived osteoblasts. Injury, 2014, 45, 974-980.	0.7	32
116	Inorganic nanoparticles for transfection of mammalian cells and removal of viruses from aqueous solutions. Biotechnology and Bioengineering, 2007, 98, 1083-1093.	1.7	31
117	Tracking Trace Amounts of Submicrometer Silica Particles in Wastewaters and Activated Sludge Using Silica-Encapsulated DNA Barcodes. Environmental Science and Technology Letters, 2014, 1, 484-489.	3.9	31
118	Effect of thermal treatments on the reactivity of nanosized tricalcium phosphate powders. Journal of Materials Chemistry, 2008, 18, 4460.	6.7	30
119	Energy-Efficient Noble Metal Recovery by the Use of Acid-Stable Nanomagnets. Industrial & Engineering Chemistry Research, 2010, 49, 9355-9362.	1.8	30
120	Magnetic Silyl Scaffold Enables Efficient Recycling of Protecting Groups. Chemistry - A European Journal, 2011, 17, 10566-10573.	1.7	30
121	Heterogeneous Catalysis by Flame-Made Nanoparticles. Chimia, 2002, 56, 485-489.	0.3	29
122	Rapid Production of a Porous Cellulose Acetate Membrane for Water Filtration using Readily Available Chemicals. Journal of Chemical Education, 2017, 94, 483-487.	1.1	29
123	Preparation of Homogeneous, Bulk Nanocrystalline Ni/Mo Alloys with Tripled Vickers Hardness Using Flame-Made Metal Nanoparticles. Chemistry of Materials, 2007, 19, 4847-4854.	3.2	28
124	Light-curable polymer/calcium phosphate nanocomposite glue for bone defect treatment. Acta Biomaterialia, 2010, 6, 2704-2710.	4.1	28
125	Printable Nanoporous Silver Membranes. Chemistry of Materials, 2010, 22, 4980-4986.	3.2	28
126	Labeling Milk along Its Production Chain with DNA Encapsulated in Silica. Journal of Agricultural and Food Chemistry, 2014, 62, 10615-10620.	2.4	28

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127	Selective Biosorption and Recovery of Tungsten from an Urban Mine and Feasibility Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2903-2910.	1.8	27
128	Titania-silica doped with transition metals via flame synthesis: structural properties and catalytic behavior in epoxidation. <i>Journal of Materials Chemistry</i> , 2002, 12, 3620-3625.	6.7	26
129	Disk-shaped packed bed micro-reactor for butane-to-syngas processing. <i>Chemical Engineering Science</i> , 2008, 63, 5193-5201.	1.9	26
130	Reactivity of calcium phosphate nanoparticles prepared by flame spray synthesis as precursors for calcium phosphate cements. <i>Journal of Materials Chemistry</i> , 2011, 21, 13963.	6.7	26
131	Pressureless Mechanical Induction of Stem Cell Differentiation Is Dose and Frequency Dependent. <i>PLoS ONE</i> , 2013, 8, e81362.	1.1	26
132	Porous polysulfone coatings for enhanced drug delivery. <i>Biomedical Microdevices</i> , 2012, 14, 603-612.	1.4	25
133	Design, Performance and Reinforcement of Bearing-Free Soft Silicone Combustion-Driven Pumps. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12519-12526.	1.8	25
134	Nondestructive in-line sub-picomolar detection of magnetic nanoparticles in flowing complex fluids. <i>Scientific Reports</i> , 2018, 8, 3491.	1.6	25
135	Roll-to-Roll Preparation of Mesoporous Membranes by Nanoparticle Template Removal. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9214-9220.	1.8	24
136	Magnet-guided transduction of mammalian cells and mice using engineered magnetic lentiviral particles. <i>Journal of Biotechnology</i> , 2009, 141, 118-122.	1.9	23
137	Thermal Treatment of Flame-Synthesized Amorphous Tricalcium Phosphate Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3455-3463.	1.9	23
138	Monomer-on-Monomer (MoM) Mitsunobu Reaction: Facile Purification Utilizing Surface-Initiated Sequestration. <i>Organic Letters</i> , 2011, 13, 8-10.	2.4	23
139	Iron core/shell nanoparticles as magnetic drug carriers: possible interactions with the vascular compartment. <i>Nanomedicine</i> , 2011, 6, 1199-1213.	1.7	23
140	Scaling up magnetic filtration and extraction to the ton per hour scale using carbon coated metal nanoparticles. <i>Separation and Purification Technology</i> , 2012, 96, 68-74.	3.9	23
141	Quantitative Recovery of Magnetic Nanoparticles from Flowing Blood: Trace Analysis and the Role of Magnetization. <i>Advanced Functional Materials</i> , 2013, 23, 4888-4896.	7.8	23
142	Inflammatory Response of Lung Macrophages and Epithelial Cells after Exposure to Redox Active Nanoparticles: Effect of Solubility and Antioxidant Treatment. <i>Environmental Science & Technology</i> , 2014, 48, 13960-13968.	4.6	23
143	Length-dependent DNA degradation kinetic model: Decay compensation in DNA tracer concentration measurements. <i>AIChE Journal</i> , 2019, 65, 40-48.	1.8	23
144	DNA synthesis for true random number generation. <i>Nature Communications</i> , 2020, 11, 5869.	5.8	23

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145	Template-Particle Stabilized Bicontinuous Emulsion Yielding Controlled Assembly of Hierarchical High-Flux Filtration Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 611-617.	4.0	22
146	Hollow Carbon Nanobubbles: Synthesis, Chemical Functionalization, and Containerâ€”Type Behavior in Water. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8761-8765.	7.2	22
147	Highly elastomeric poly(3-hydroxyoctanoate) based natural polymer composite for enhanced keratinocyte regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 326-335.	1.8	22
148	Spherical calcium phosphate nanoparticle fillers allow polymer processing of bone fixation devices with high bioactivity. <i>Polymer Engineering and Science</i> , 2010, 50, 952-960.	1.5	21
149	A fast hybrid start-up process for thermally self-sustained catalytic n-butane reforming in micro-SOFC power plants. <i>Energy and Environmental Science</i> , 2011, 4, 3041.	15.6	21
150	Magnetic Superbasic Proton Sponges Are Readily Removed and Permit Direct Product Isolation. <i>Journal of Organic Chemistry</i> , 2014, 79, 10908-10915.	1.7	21
151	Integrating DNA Encapsulates and Digital Microfluidics for Automated Data Storage in DNA. <i>Small</i> , 2022, 18, e2107381.	5.2	21
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