

Robert N. Grass

List of Publications by Year in descending order

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137
papers

9,753
citations

41258

49
h-index

38300

95
g-index

144
all docs

144
docs citations

144
times ranked

12367
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	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
4	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
5	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
6	Large-scale production of carbon-coated copper nanoparticles for sensor applications. <i>Nanotechnology</i> , 2006, 17, 1668-1673.	1.3	276
7	Remineralization of human dentin using ultrafine bioactive glass particles. <i>Acta Biomaterialia</i> , 2007, 3, 936-943.	4.1	276
8	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
9	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
10	Gas phase synthesis of fcc-cobalt nanoparticles. <i>Journal of Materials Chemistry</i> , 2006, 16, 1825.	6.7	155
11	A Characterization of the DNA Data Storage Channel. <i>Scientific Reports</i> , 2019, 9, 9663.	1.6	151
12	Glass and bioglass nanopowders by flame synthesis. <i>Chemical Communications</i> , 2006, , 1384.	2.2	150
13	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
14	Synthesis and Covalent Surface Functionalization of Nonoxidic Iron Core-Shell Nanomagnets. <i>Chemistry of Materials</i> , 2009, 21, 3275-3281.	3.2	132
15	Thermoresponsive Polymer Induced Sweating Surfaces as an Efficient Way to Passively Cool Buildings. <i>Advanced Materials</i> , 2012, 24, 5352-5356.	11.1	131
16	Highly Sensitive Optical Detection of Humidity on Polymer/Metal Nanoparticle Hybrid Films. <i>Langmuir</i> , 2007, 23, 3473-3477.	1.6	113
17	Blood Purification Using Functionalized Core/Shell Nanomagnets. <i>Small</i> , 2010, 6, 1388-1392.	5.2	113
18	A DNA-of-things storage architecture to create materials with embedded memory. <i>Nature Biotechnology</i> , 2020, 38, 39-43.	9.4	113

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19	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
20	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
21	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
22	Reversible DNA encapsulation in silica to produce ROS-resistant and heat-resistant synthetic DNA 'fossils'. <i>Nature Protocols</i> , 2013, 8, 2440-2448.	5.5	103
23	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
24	Flame synthesis of calcium-, strontium-, barium fluoride nanoparticles and sodium chloride. <i>Chemical Communications</i> , 2005, , 1767.	2.2	99
25	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
26	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
27	Bottom-up Fabrication of Metal/Metal Nanocomposites from Nanoparticles of Immiscible Metals. <i>Chemistry of Materials</i> , 2010, 22, 155-160.	3.2	93
28	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
29	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
30	Protection and Deprotection of DNA-High-Temperature Stability of Nucleic Acid Barcodes for Polymer Labeling. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4269-4272.	7.2	87
31	Interaction between Human Cathepsins K, L, and S and Elastins. <i>Journal of Biological Chemistry</i> , 2007, 282, 7893-7902.	1.6	84
32	Reading and writing digital data in DNA. <i>Nature Protocols</i> , 2020, 15, 86-101.	5.5	81
33	Use of NIR light and upconversion phosphors in light-curable polymers. <i>Dental Materials</i> , 2012, 28, 304-311.	1.6	76
34	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
35	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
36	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

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37	Combining Data Longevity with High Storage Capacityâ€”Layerâ€”byâ€”Layer DNA Encapsulated in Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1901672.	7.8	65
38	Template free, large scale synthesis of cobalt nanowires using magnetic fields for alignment. <i>Nanotechnology</i> , 2007, 18, 165606.	1.3	64
39	Design of high-temperature, gas-phase synthesis of hard or soft TiO ₂ agglomerates. <i>AIChE Journal</i> , 2006, 52, 1318-1325.	1.8	59
40	Phosphate starvation as an antimicrobial strategy: the controllable toxicity of lanthanum oxide nanoparticles. <i>Chemical Communications</i> , 2012, 48, 3869.	2.2	58
41	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
42	Mussel-inspired load bearing metalâ€”polymer glues. <i>Chemical Communications</i> , 2012, 48, 6238.	2.2	57
43	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
44	Base-free Knoevenagel condensation catalyzed by copper metal surfaces. <i>Chemical Communications</i> , 2015, 51, 10695-10698.	2.2	56
45	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
46	Combining Phosphate and Bacteria Removal on Chemically Active Filter Membranes Allows Prolonged Storage of Drinking Water. <i>Advanced Materials</i> , 2013, 25, 6057-6063.	11.1	54
47	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
48	Particles with an identity: Tracking and tracing in commodity products. <i>Powder Technology</i> , 2016, 291, 344-350.	2.1	52
49	Synthetic DNA applications in information technology. <i>Nature Communications</i> , 2022, 13, 352.	5.8	52
50	Silica-Encapsulated DNA-Based Tracers for Aquifer Characterization. <i>Environmental Science & Technology</i> , 2018, 52, 12142-12152.	4.6	50
51	Large-Scale Synthesis of PbSâ€”TiO ₂ Heterojunction Nanoparticles in a Single Step for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16264-16270.	1.5	49
52	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
53	Single-particle ICP-MS with online microdroplet calibration: toward matrix independent nanoparticle sizing. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 716-728.	1.6	48
54	Suzuki cross-coupling reactions on the surface of carbon-coated cobalt: expanding the applicability of coreâ€”shell nano-magnets. <i>Chemical Communications</i> , 2008, , 4297.	2.2	47

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55	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
56	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
57	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
58	Device for continuous extracorporeal blood purification using target-specific metal nanomagnets. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 2948-2954.	0.4	42
59	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
60	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
61	Physico-Chemical Differences Between Particle- and Molecule-Derived Toxicity: Can We Make Inherently Safe Nanoparticles?. <i>Chimia</i> , 2009, 63, 38.	0.3	38
62	Stabilizing synthetic DNA for long-term data storage with earth alkaline salts. <i>Chemical Communications</i> , 2020, 56, 3613-3616.	2.2	38
63	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
64	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
65	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
66	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
67	Incorporation of Penicillin-producing Fungi into Living Materials to Provide Chemically Active and Antibiotic-releasing Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11293-11296.	7.2	34
68	Efficient Magnetic Recycling of Covalently Attached Enzymes on Carbon-Coated Metallic Nanomagnets. <i>Bioconjugate Chemistry</i> , 2014, 25, 677-684.	1.8	34
69	Flame Spray Pyrolysis as a Synthesis Platform to Assess Metal Promotion in $\text{In}_{2}\text{O}_{3}$ -Catalyzed CO_{2} Hydrogenation. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	34
70	Preparation of nano-gypsum from anhydrite nanoparticles: Strongly increased Vickers hardness and formation of calcium sulfate nano-needles. <i>Journal of Nanoparticle Research</i> , 2007, 9, 275-281.	0.8	32
71	Tracking Trace Amounts of Submicrometer Silica Particles in Wastewaters and Activated Sludge Using Silica-Encapsulated DNA Barcodes. <i>Environmental Science and Technology Letters</i> , 2014, 1, 484-489.	3.9	31
72	Energy-Efficient Noble Metal Recovery by the Use of Acid-Stable Nanomagnets. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9355-9362.	1.8	30

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73	Rapid Production of a Porous Cellulose Acetate Membrane for Water Filtration using Readily Available Chemicals. <i>Journal of Chemical Education</i> , 2017, 94, 483-487.	1.1	29
74	Preparation of Homogeneous, Bulk Nanocrystalline Ni/Mo Alloys with Tripled Vickers Hardness Using Flame-Made Metal Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 4847-4854.	3.2	28
75	Labeling Milk along Its Production Chain with DNA Encapsulated in Silica. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10615-10620.	2.4	28
76	Silica particles with encapsulated <sc>DNA</sc> as trophic tracers. <i>Molecular Ecology Resources</i> , 2015, 15, 231-241.	2.2	26
77	Pressureless Mechanical Induction of Stem Cell Differentiation Is Dose and Frequency Dependent. <i>PLoS ONE</i> , 2013, 8, e81362.	1.1	26
78	Roll-to-Roll Preparation of Mesoporous Membranes by Nanoparticle Template Removal. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9214-9220.	1.8	24
79	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
80	Magnetic switching of optical reflectivity in nanomagnet/micromirror suspensions: colloid displays as a potential alternative to liquid crystal displays. <i>Nanotechnology</i> , 2009, 20, 485302.	1.3	23
81	Monomer-on-Monomer (MoM) Mitsunobu Reaction: Facile Purification Utilizing Surface-Initiated Sequestration. <i>Organic Letters</i> , 2011, 13, 8-10.	2.4	23
82	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
83	Length-dependent DNA degradation kinetic model: Decay compensation in DNA tracer concentration measurements. <i>AIChE Journal</i> , 2019, 65, 40-48.	1.8	23
84	DNA synthesis for true random number generation. <i>Nature Communications</i> , 2020, 11, 5869.	5.8	23
85	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
86	DNA protection against ultraviolet irradiation by encapsulation in a multilayered SiO ₂ /TiO ₂ assembly. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8504-8509.	2.9	21
87	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
88	Integrating DNA Encapsulates and Digital Microfluidics for Automated Data Storage in DNA. <i>Small</i> , 2022, 18, e2107381.	5.2	21
89	Advanced Piezoresistance of Extended Metal-Insulator Core-Shell Nanoparticle Assemblies. <i>Physical Review Letters</i> , 2008, 101, 166804.	2.9	20
90	Submicrometer-Sized Thermometer Particles Exploiting Selective Nucleic Acid Stability. <i>Small</i> , 2016, 12, 452-456.	5.2	20

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91	Kinetics of Aggregation and Gelation in Colloidal Dispersions. <i>Chemical Engineering Research and Design</i> , 2005, 83, 926-932.	2.7	18
92	Silica Microcapsules for Long-Term, Robust, and Reliable Room Temperature RNA Preservation. <i>Advanced Healthcare Materials</i> , 2015, 4, 1332-1338.	3.9	17
93	Large-scale preparation of ceria/bismuth metal-matrix nano-composites with a hardness comparable to steel. <i>Journal of Materials Chemistry</i> , 2007, 17, 1485.	6.7	16
94	Reversible As(V) adsorption on magnetic nanoparticles and pH dependent desorption concentrates dilute solutions and realizes true moving bed reactor systems. <i>Chemical Engineering Journal</i> , 2011, 175, 244-250.	6.6	16
95	Gas-phase synthesis of magnetic metal/polymer nanocomposites. <i>Nanotechnology</i> , 2014, 25, 505602.	1.3	16
96	Limestone nanoparticles as nanopore templates in polymer membranes: narrow pore size distribution and use as self-wetting dialysis membranes. <i>RSC Advances</i> , 2014, 4, 61420-61426.	1.7	16
97	Reversible magnetic mercury extraction from water. <i>RSC Advances</i> , 2015, 5, 46430-46436.	1.7	16
98	Fast and energy efficient start-up of micro-solid oxide fuel cell systems by using the reformer or the post-combustor for start-up heating. <i>Journal of Power Sources</i> , 2008, 182, 558-564.	4.0	15
99	Electrical Resistivity of Assembled Transparent Inorganic Oxide Nanoparticle Thin Layers: Influence of Silica, Insulating Impurities, and Surfactant Layer Thickness. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2664-2671.	4.0	15
100	Porous, Water-Resistant Multifilament Yarn Spun from Gelatin. <i>Biomacromolecules</i> , 2015, 16, 1997-2005.	2.6	15
101	The light triggered dissolution of gold wires using potassium ferrocyanide solutions enables cumulative illumination sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 52-59.	4.0	14
102	One-step large scale gas phase synthesis of Mn ²⁺ -doped ZnS nanoparticles in reducing flames. <i>Nanotechnology</i> , 2010, 21, 215603.	1.3	13
103	From Embedded to Supported Metal/Oxide Nanomaterials: Thermal Behavior and Structural Evolution at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1269-1276.	1.5	13
104	Physical Defect Formation in Few Layer Graphene-like Carbon on Metals: Influence of Temperature, Acidity, and Chemical Functionalization. <i>Langmuir</i> , 2012, 28, 4565-4572.	1.6	13
105	Robuste chemische Speicherung von digitalen Informationen auf DNA in Silicat unter Verwendung fehlerkorrigierender Codes. <i>Angewandte Chemie</i> , 2015, 127, 2582-2586.	1.6	13
106	Click and release: fluoride cleavable linker for mild bioorthogonal separation. <i>Chemical Communications</i> , 2016, 52, 938-941.	2.2	13
107	Genomic Encryption of Digital Data Stored in Synthetic DNA. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8476-8480.	7.2	13
108	Fibers Mechanically Similar to Sheep Wool Obtained by Wet Spinning of Gelatin and Optional Plasticizers. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 234-241.	1.7	12

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109	Water dispersible surface-functionalized platinum/carbon nanorattles for size-selective catalysis. <i>Chemical Science</i> , 2018, 9, 362-367.	3.7	12
110	Grain growth resistance and increased hardness of bulk nanocrystalline fcc cobalt prepared by a bottom-up approach. <i>Nanotechnology</i> , 2007, 18, 035703.	1.3	10
111	Spinning Angora Rabbit Wool-Like Porous Fibers from a Non-Equilibrated Gelatin/Water/2-Propanol Mixture. <i>Advanced Functional Materials</i> , 2014, 24, 1831-1839.	7.8	10
112	Magnetically deliverable calcium phosphate nanoparticles for localized gene expression. <i>RSC Advances</i> , 2015, 5, 9997-10004.	1.7	10
113	Sintering of core-shell Ag/glass nanoparticles: metal percolation at the glass transition temperature yields metal/glass/ceramic composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 7769.	6.7	9
114	Immobilizing and de-immobilizing enzymes on mesoporous silica. <i>RSC Advances</i> , 2015, 5, 87706-87712.	1.7	9
115	Small-Size Polymerase Chain Reaction Device with Improved Heat Transfer and Combined Feedforward/Feedback Control Strategy. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9665-9674.	1.8	9
116	Preparation of an ultra fast binding cement from calcium silicate-based mixed oxide nanoparticles. <i>Nanotechnology</i> , 2007, 18, 395701.	1.3	8
117	Anhydrous calcium phosphate crystals stabilize DNA for dry storage. <i>Chemical Communications</i> , 2022, 58, 3174-3177.	2.2	8
118	Nanocomposites of high-density polyethylene with amorphous calcium phosphate: <i>in vitro</i> biomineralization and cytocompatibility of human mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 054103.	1.7	7
119	PCR quantification of SiO ₂ particle uptake in cells in the ppb and ppm range via silica encapsulated DNA barcodes. <i>Chemical Communications</i> , 2014, 50, 10707-10709.	2.2	7
120	Protein Reduction and Dialysis-Free Workup through Phosphines Immobilized on a Magnetic Support: TCEP-Functionalized Carbon-Coated Cobalt Nanoparticles. <i>Chemistry - A European Journal</i> , 2017, 23, 8585-8589.	1.7	7
121	Ferromagnetic Inks Facilitate Large Scale Paper Recycling and Reduce Bleach Chemical Consumption. <i>Langmuir</i> , 2013, 29, 5093-5098.	1.6	6
122	Ecotoxicological Assessment of DNA-Tagged Silica Particles for Environmental Tracing. <i>Environmental Science & Technology</i> , 2021, 55, 6867-6875.	4.6	6
123	Induced cyanogenesis from hydroxynitrile lyase and mandelonitrile on wheat with polylactic acid multilayer-coating produces self-defending seeds. <i>Journal of Materials Chemistry A</i> , 2014, 2, 853-858.	5.2	5
124	Micro Mirror Polymer Composite Offers Mechanically Switchable Light Transmittance. <i>Advanced Engineering Materials</i> , 2014, 16, 878-883.	1.6	5
125	Development and Application of a Recyclable High-Load Magnetic Co/C Hybrid ROMP-Derived Benzenesulfonyl Chloride Reagent and Utility of Corresponding Analogues. <i>Organic Letters</i> , 2017, 19, 2274-2277.	2.4	5
126	Self-defending anti-vandalism surfaces based on mechanically triggered mixing of reactants in polymer foils. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8425-8430.	5.2	4

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127	DNA-Based Sensor Particles Enable Measuring Light Intensity in Single Cells. <i>Advanced Materials</i> , 2016, 28, 2765-2770.	11.1	4
128	Glucosidase Assisted Gold Dissolution as Non-Optical and Quantifiable Detection Technique for Immunoassays. <i>Small</i> , 2013, 9, 4000-4005.	5.2	3
129	One-Step Photolithographic Surface Patterning of Nanometer-Thick Gold Surfaces by Using a Commercial DLP Projector and the Fabrication of a Microheater. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12048-12055.	1.8	3
130	Genomic Encryption of Digital Data Stored in Synthetic DNA. <i>Angewandte Chemie</i> , 2020, 132, 8554-8558.	1.6	3
131	Silica-Encapsulated DNA tracers for measuring aerosol distribution dynamics in real-world settings. <i>Indoor Air</i> , 2022, 32, .	2.0	3
132	RNA Storage: Silica Microcapsules for Long-Term, Robust, and Reliable Room Temperature RNA Preservation (<i>Adv. Healthcare Mater.</i> 9/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 1262-1262.	3.9	1
133	Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions. <i>Chimia</i> , 2015, 69, 369-369.	0.3	1
134	The dissipation rate of news in online mass media evaluated by chemical engineering and process control tools. <i>AIChE Journal</i> , 2016, 62, 1104-1111.	1.8	1
135	TEMPO-Immobilized on Magnetic C/Co Nanoparticles for Alcohol Oxidation. <i>Synfacts</i> , 2008, 2008, 1349-1349.	0.0	0
136	Titelbild: Robuste chemische Speicherung von digitalen Informationen auf DNA in Silicat unter Verwendung fehlerkorrigierender Codes (<i>Angew. Chem.</i> 8/2015). <i>Angewandte Chemie</i> , 2015, 127, 2323-2323.	1.6	0
137	DNA Barcode Quantification As a Robust Tool for Measuring Mixing Ratios in Two-Component Systems. <i>ACS Applied Bio Materials</i> , 2019, 2, 5062-5068.	2.3	0