

Robert N. Grass

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

136
papers

8,145
citations

44
h-index

88
g-index

144
ext. papers

8,925
ext. citations

8.2
avg, IF

5.99
L-index

#	Paper	IF	Citations
136	Synthetic DNA applications in information technology.. <i>Nature Communications</i> , 2022 , 13, 352	17.4	2
135	Anhydrous calcium phosphate crystals stabilize DNA for dry storage.. <i>Chemical Communications</i> , 2022 ,	5.8	1
134	Integrating DNA Encapsulates and Digital Microfluidics for Automated Data Storage in DNA.. <i>Small</i> , 2022 , e2107381	11	3
133	Ecotoxicological Assessment of DNA-Tagged Silica Particles for Environmental Tracing. <i>Environmental Science & Technology</i> , 2021 , 55, 6867-6875	10.3	1
132	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	3.9	0
131	Genomic Encryption of Digital Data Stored in Synthetic DNA. <i>Angewandte Chemie</i> , 2020 , 132, 8554-8558	3.6	1
130	Genomic Encryption of Digital Data Stored in Synthetic DNA. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8476-8480	16.4	6
129	Stabilizing synthetic DNA for long-term data storage with earth alkaline salts. <i>Chemical Communications</i> , 2020 , 56, 3613-3616	5.8	18
128	A DNA-of-things storage architecture to create materials with embedded memory. <i>Nature Biotechnology</i> , 2020 , 38, 39-43	44.5	50
127	Reading and writing digital data in DNA. <i>Nature Protocols</i> , 2020 , 15, 86-101	18.8	32
126	DNA synthesis for true random number generation. <i>Nature Communications</i> , 2020 , 11, 5869	17.4	13
125	Low cost DNA data storage using photolithographic synthesis and advanced information reconstruction and error correction. <i>Nature Communications</i> , 2020 , 11, 5345	17.4	21
124	Single-particle ICP-MS with online microdroplet calibration: toward matrix independent nanoparticle sizing. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 716-728	3.7	27
123	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	3.9	4
122	Combining Data Longevity with High Storage Capacity: Layer-by-Layer DNA Encapsulated in Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2019 , 29, 1901672	15.6	33
121	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	2.4	22
120	A Characterization of the DNA Data Storage Channel. <i>Scientific Reports</i> , 2019 , 9, 9663	4.9	61

119	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	4.1	
118	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	8.5	10
117	Length-dependent DNA degradation kinetic model: Decay compensation in DNA tracer concentration measurements. <i>AIChE Journal</i> , 2019 , 65, 40-48	3.6	6
116	Water dispersible surface-functionalized platinum/carbon nanorattles for size-selective catalysis. <i>Chemical Science</i> , 2018 , 9, 362-367	9.4	9
115	Silica-Encapsulated DNA-Based Tracers for Aquifer Characterization. <i>Environmental Science & Technology</i> , 2018 , 52, 12142-12152	10.3	27
114	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	6.2	5
113	Protein Reduction and Dialysis-Free Work-Up through Phosphines Immobilized on a Magnetic Support: TCEP-Functionalized Carbon-Coated Cobalt Nanoparticles. <i>Chemistry - A European Journal</i> , 2017 , 23, 8585-8589	4.8	4
112	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	2.4	21
111	Particles with an identity: Tracking and tracing in commodity products. <i>Powder Technology</i> , 2016 , 291, 344-350	5.2	44
110	Click and release: fluoride cleavable linker for mild bioorthogonal separation. <i>Chemical Communications</i> , 2016 , 52, 938-41	5.8	12
109	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	3.6	
108	Submicrometer-Sized Thermometer Particles Exploiting Selective Nucleic Acid Stability. <i>Small</i> , 2016 , 12, 452-6	11	17
107	DNA-Based Sensor Particles Enable Measuring Light Intensity in Single Cells. <i>Advanced Materials</i> , 2016 , 28, 2765-70	24	3
106	Titelbild: Robuste chemische Speicherung von digitalen Informationen auf DNA in Silicat unter Verwendung fehlerkorrigierender Codes (Angew. Chem. 8/2015). <i>Angewandte Chemie</i> , 2015 , 127, 2323-2323	3.6	
105	Porous, Water-Resistant Multifilament Yarn Spun from Gelatin. <i>Biomacromolecules</i> , 2015 , 16, 1997-2005	6.9	10
104	Silica Microcapsules for Long-Term, Robust, and Reliable Room Temperature RNA Preservation. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1332-8	10.1	13
103	Immobilizing and de-immobilizing enzymes on mesoporous silica. <i>RSC Advances</i> , 2015 , 5, 87706-87712	3.7	9
102	Template-particle stabilized bicontinuous emulsion yielding controlled assembly of hierarchical high-flux filtration membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 611-7	9.5	18

101	Silica particles with encapsulated DNA as trophic tracers. <i>Molecular Ecology Resources</i> , 2015 , 15, 231-41	8.4	18
100	RNA Storage: Silica Microcapsules for Long-Term, Robust, and Reliable Room Temperature RNA Preservation (Adv. Healthcare Mater. 9/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 1262-1262	10.1	1
99	Robuste chemische Speicherung von digitalen Informationen auf DNA in Silicat unter Verwendung fehlerkorrigierender Codes. <i>Angewandte Chemie</i> , 2015 , 127, 2582-2586	3.6	10
98	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	3.9	12
97	Reversible magnetic mercury extraction from water. <i>RSC Advances</i> , 2015 , 5, 46430-46436	3.7	15
96	Magnetically deliverable calcium phosphate nanoparticles for localized gene expression. <i>RSC Advances</i> , 2015 , 5, 9997-10004	3.7	7
95	Base-free Knoevenagel condensation catalyzed by copper metal surfaces. <i>Chemical Communications</i> , 2015 , 51, 10695-8	5.8	46
94	Robust chemical preservation of digital information on DNA in silica with error-correcting codes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2552-5	16.4	275
93	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	15.6	95
92	Magnetically recoverable, thermostable, hydrophobic DNA/silica encapsulates and their application as invisible oil tags. <i>ACS Nano</i> , 2014 , 8, 2677-85	16.7	87
91	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	13	4
90	Palladium nanoparticles supported on ionic liquid modified, magnetic nanobeads [recyclable, high-capacity catalysts for alkene hydrogenation. <i>RSC Advances</i> , 2014 , 4, 8541	3.7	43
89	Roll-to-Roll Preparation of Mesoporous Membranes by Nanoparticle Template Removal. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9214-9220	3.9	20
88	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	7.3	20
87	Magnetic superbasic proton sponges are readily removed and permit direct product isolation. <i>Journal of Organic Chemistry</i> , 2014 , 79, 10908-15	4.2	19
86	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	13	3
85	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, 10707-9	5.8	4
84	Labeling milk along its production chain with DNA encapsulated in silica. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 10615-20	5.7	21

83	3D printed lost-wax casted soft silicone monoblocks enable heart-inspired pumping by internal combustion. <i>RSC Advances</i> , 2014 , 4, 16039-16042	3.7	32
82	Efficient magnetic recycling of covalently attached enzymes on carbon-coated metallic nanomagnets. <i>Bioconjugate Chemistry</i> , 2014 , 25, 677-84	6.3	30
81	Micro Mirror Polymer Composite Offers Mechanically Switchable Light Transmittance. <i>Advanced Engineering Materials</i> , 2014 , 16, 878-883	3.5	4
80	Gas-phase synthesis of magnetic metal/polymer nanocomposites. <i>Nanotechnology</i> , 2014 , 25, 505602	3.4	16
79	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 ¹¹		25
78	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	15.6	10
77	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	3.7	15
76	Ferromagnetic inks facilitate large scale paper recycling and reduce bleach chemical consumption. <i>Langmuir</i> , 2013 , 29, 5093-8	4	6
75	Reversible DNA encapsulation in silica to produce ROS-resistant and heat-resistant synthetic DNA. <i>Nature Protocols</i> , 2013 , 8, 2440-8	18.8	76
74	Schützen und Entschützen von DNA [Temperaturstabile Nucleinsäuren als Barcode zur Markierung von Polymeren. <i>Angewandte Chemie</i> , 2013 , 125, 4364-4368	3.6	8
73	β-D-glucosidase assisted gold dissolution as non-optical and quantifiable detection technique for immunoassays. <i>Small</i> , 2013 , 9, 4000-5	11	3
72	Protection and deprotection of DNA--high-temperature stability of nucleic acid barcodes for polymer labeling. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4269-72	16.4	73
71	Combining phosphate and bacteria removal on chemically active filter membranes allows prolonged storage of drinking water. <i>Advanced Materials</i> , 2013 , 25, 6057-63	24	47
70	Pressureless mechanical induction of stem cell differentiation is dose and frequency dependent. <i>PLoS ONE</i> , 2013 , 8, e81362	3.7	20
69	Use of NIR light and upconversion phosphors in light-curable polymers. <i>Dental Materials</i> , 2012 , 28, 304-14.7		61
68	Soluble nanoparticles as removable pore templates for the preparation of polymer ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2012 , 387-388, 76-82	9.6	31
67	Functionalized graphene-coated cobalt nanoparticles for highly efficient surface-assisted laser desorption/ionization mass spectrometry analysis. <i>Analytical Chemistry</i> , 2012 , 84, 9268-75	7.8	49
66	Incorporation of penicillin-producing fungi into living materials to provide chemically active and antibiotic-releasing surfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11293-6	16.4	24

65	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, 2664-71	9.5	15
64	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		38
63	Mussel-inspired load bearing metal-polymer glues. <i>Chemical Communications</i> , 2012 , 48, 6238-40	5.8	51
62	Thermoresponsive polymer induced sweating surfaces as an efficient way to passively cool buildings. <i>Advanced Materials</i> , 2012 , 24, 5352-6	24	94
61	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	8.3	21
60	Large-Scale Synthesis of PbS/SiO ₂ Heterojunction Nanoparticles in a Single Step for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16264-16270	3.8	42
59	Physical defect formation in few layer graphene-like carbon on metals: influence of temperature, acidity, and chemical functionalization. <i>Langmuir</i> , 2012 , 28, 4565-72	4	13
58	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	8.4	40
57	Phosphate starvation as an antimicrobial strategy: the controllable toxicity of lanthanum oxide nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 3869-71	5.8	49
56	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, 90-4	11.5	28
55	Nanocomposites of high-density polyethylene with amorphous calcium phosphate: in vitro biomineralization and cytocompatibility of human mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 054103	3.5	7
54	Immobilized β -cyclodextrin on surface-modified carbon-coated cobalt nanomagnets: reversible organic contaminant adsorption and enrichment from water. <i>Langmuir</i> , 2011 , 27, 1924-9	4	65
53	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, 368-75	5.7	29
52	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	3.8	11
51	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	14.7	15
50	Monomer-on-monomer (MoM) Mitsunobu reaction: facile purification utilizing surface-initiated sequestration. <i>Organic Letters</i> , 2011 , 13, 8-10	6.2	23
49	Device for continuous extracorporeal blood purification using target-specific metal nanomagnets. <i>Nephrology Dialysis Transplantation</i> , 2011 , 26, 2948-54	4.3	41
48	One-step large scale gas phase synthesis of Mn(2+) doped ZnS nanoparticles in reducing flames. <i>Nanotechnology</i> , 2010 , 21, 215603	3.4	9

47	Energy-Efficient Noble Metal Recovery by the Use of Acid-Stable Nanomagnets. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9355-9362	3.9	29
46	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	9.6	90
45	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		8
44	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	4.3	44
43	Bottom-up Fabrication of Metal/Metal Nanocomposites from Nanoparticles of Immiscible Metals. <i>Chemistry of Materials</i> , 2010 , 22, 155-160	9.6	74
42	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	3.4	83
41	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	15.6	108
40	A recyclable nanoparticle-supported palladium catalyst for the hydroxycarbonylation of aryl halides in water. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1867-70	16.4	199
39	Blood purification using functionalized core/shell nanomagnets. <i>Small</i> , 2010 , 6, 1388-92	11	105
38	Permanent pattern-resolved adjustment of the surface potential of graphene-like carbon through chemical functionalization. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 224-7	16.4	89
37	Magnet-guided transduction of mammalian cells and mice using engineered magnetic lentiviral particles. <i>Journal of Biotechnology</i> , 2009 , 141, 118-22	3.7	23
36	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, 2634-40	10.3	61
35	Synthesis and Covalent Surface Functionalization of Nonoxidic Iron Core-shell Nanomagnets. <i>Chemistry of Materials</i> , 2009 , 21, 3275-3281	9.6	124
34	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 , 4862-4	5.8	136
33	High-strength metal nanomagnets for diagnostics and medicine: carbon shells allow long-term stability and reliable linker chemistry. <i>Nanomedicine</i> , 2009 , 4, 787-98	5.6	51
32	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	3.4	21
31	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		55
30	Physico-Chemical Differences Between Particle- and Molecule-Derived Toxicity: Can We Make Inherently Safe Nanoparticles?. <i>Chimia</i> , 2009 , 63, 38-43	1.3	34

29	Suzuki cross-coupling reactions on the surface of carbon-coated cobalt: expanding the applicability of core-shell nano-magnets. <i>Chemical Communications</i> , 2008 , 4297-9	5.8	42
28	Advanced piezoresistance of extended metal-insulator core-shell nanoparticle assemblies. <i>Physical Review Letters</i> , 2008 , 101, 166804	7.4	18
27	Fast and exergy 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	8.9	14
26	TEMPO supported on magnetic C/Co-nanoparticles: a highly active and recyclable organocatalyst. <i>Chemistry - A European Journal</i> , 2008 , 14, 8262-6	4.8	154
25	Cotton wool-like nanocomposite biomaterials prepared by electrospinning: in vitro bioactivity and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 350-62	3.5	103
24	Surfactant-Free, Melt-Processable Metal/Polymer Hybrid Materials: Use of Graphene as a Dispersing Agent. <i>Advanced Materials</i> , 2008 , 20, 3044-3049	24	35
23	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	9.6	26
22	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		14
21	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		84
20	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, 4158-63	10.3	713
19	Highly sensitive optical detection of humidity on polymer/metal nanoparticle hybrid films. <i>Langmuir</i> , 2007 , 23, 3473-7	4	104
18	Template free, large scale synthesis of cobalt nanowires using magnetic fields for alignment. <i>Nanotechnology</i> , 2007 , 18, 165606	3.4	59
17	Covalently functionalized cobalt nanoparticles as a platform for magnetic separations in organic synthesis. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4909-12	16.4	280
16	Remineralization of human dentin using ultrafine bioactive glass particles. <i>Acta Biomaterialia</i> , 2007 , 3, 936-43	10.8	244
15	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	2.3	28
14	Grain growth resistance and increased hardness of bulk nanocrystalline fcc cobalt prepared by a bottom-up approach. <i>Nanotechnology</i> , 2007 , 18, 035703	3.4	9
13	Preparation of an ultra fast binding cement from calcium silicate-based mixed oxide nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 395701	3.4	7
12	Interaction between human cathepsins K, L, and S and elastins: mechanism of elastinolysis and inhibition by macromolecular inhibitors. <i>Journal of Biological Chemistry</i> , 2007 , 282, 7893-902	5.4	76

11	Design of high-temperature, gas-phase synthesis of hard or soft TiO ₂ agglomerates. <i>AIChE Journal</i> , 2006 , 52, 1318-1325	3.6	54
10	Glass and bioglass nanopowders by flame synthesis. <i>Chemical Communications</i> , 2006 , 1384-6	5.8	135
9	In vitro cytotoxicity of oxide nanoparticles: comparison to asbestos, silica, and the effect of particle solubility. <i>Environmental Science & Technology</i> , 2006 , 40, 4374-81	10.3	1065
8	Large-scale production of carbon-coated copper nanoparticles for sensor applications. <i>Nanotechnology</i> , 2006 , 17, 1668-73	3.4	244
7	Gas phase synthesis of fcc-cobalt nanoparticles. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1825		139
6	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 ^{2,3}		42
5	Flame synthesis of calcium-, strontium-, barium fluoride nanoparticles and sodium chloride. <i>Chemical Communications</i> , 2005 , 1767-9	5.8	91
4	Kinetics of Aggregation and Gelation in Colloidal Dispersions. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 926-932	5.5	17
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, 9370-6	10.3	673
2	Genomic encryption of digital data stored in synthetic DNA		1
1	Flame Spray Pyrolysis as a Synthesis Platform to Assess Metal Promotion in In ₂ O ₃ -Catalyzed CO ₂ Hydrogenation. <i>Advanced Energy Materials</i> , 2103707	21.8	11