

C Jeffrey Brinker

List of Publications by Year in descending order

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205
papers

24,147
citations

8181

76
h-index

7348

152
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215
all docs

215
docs citations

215
times ranked

25248
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust and Long-Term Cellular Protein and Enzymatic Activity Preservation in Biomineralized Mammalian Cells. <i>ACS Nano</i> , 2022, 16, 2164-2175.	14.6	13
2	Microneedle Patches Integrated with Biomineralized Melanin Nanoparticles for Simultaneous Skin Tumor Photothermal Therapy and Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	63
3	Tanks and Truth. <i>ACS Nano</i> , 2022, 16, 4975-4976.	14.6	0
4	Modular Assembly of Red Blood Cell Superstructures from Metal-Organic Framework Nanoparticle-Based Building Blocks. <i>Advanced Functional Materials</i> , 2021, 31, 2005935.	14.9	28
5	Synthesis of Polyhedral Metal-Organic Framework@Mesoporous Silica Hybrid Nanocomposites with Branched Shapes. <i>ACS Applied Bio Materials</i> , 2021, 4, 1221-1228.	4.6	4
6	Bioinspired Cell Silicification: From Extracellular to Intracellular. <i>Journal of the American Chemical Society</i> , 2021, 143, 6305-6322.	13.7	32
7	Advanced Nanomaterials-Assisted Cell Cryopreservation: A Mini Review. <i>ACS Applied Bio Materials</i> , 2021, 4, 2996-3014.	4.6	16
8	Uptake and Toxicity of Respirable Carbon-Rich Uranium-Bearing Particles: Insights into the Role of Particulates in Uranium Toxicity. <i>Environmental Science & Technology</i> , 2021, 55, 9949-9957.	10.0	10
9	The impact of metal doping on fumed silica structure and amino acid thermal condensation catalytic properties. <i>Journal of Materials Science</i> , 2021, 56, 16916-16927.	3.7	1
10	Emerging Lipid-Coated Silica Nanoparticles for Cancer Therapy. <i>Nanotechnology in the Life Sciences</i> , 2021, , 335-361.	0.6	4
11	Aggregation morphology of planar engineered nanomaterials. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 849-853.	9.4	7
12	Direct Transfer of Mesoporous Silica Nanoparticles between Macrophages and Cancer Cells. <i>Cancers</i> , 2020, 12, 2892.	3.7	19
13	Are nearly free silanols a unifying structural determinant of silica particle toxicity?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30006-30008.	7.1	9
14	Engineering of monosized lipid-coated mesoporous silica nanoparticles for CRISPR delivery. <i>Acta Biomaterialia</i> , 2020, 114, 358-368.	8.3	62
15	Synthetic amorphous silica nanoparticles: toxicity, biomedical and environmental implications. <i>Nature Reviews Materials</i> , 2020, 5, 886-909.	48.7	212
16	Biomimetic Rebuilding of Multifunctional Red Blood Cells: Modular Design Using Functional Components. <i>ACS Nano</i> , 2020, 14, 7847-7859.	14.6	67
17	A mathematical model to predict nanomedicine pharmacokinetics and tumor delivery. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 518-531.	4.1	61
18	Sol-Gel-Based Advanced Porous Silica Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909539.	14.9	125

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19	Image-guided mathematical modeling for pharmacological evaluation of nanomaterials and monoclonal antibodies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1628.	6.1	24
20	Growing Contributions of Nano in 2020. <i>ACS Nano</i> , 2020, 14, 16163-16164.	14.6	1
21	Effects of Surface Chemistry and Topology on the Kinesin-Driven Motility of Microtubule Shuttles. <i>ACS Applied Bio Materials</i> , 2020, 3, 7908-7918.	4.6	1
22	Engineering of large-pore lipid-coated mesoporous silica nanoparticles for dual cargo delivery to cancer cells. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 78-90.	2.4	7
23	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019, 14, 629-635.	31.5	149
24	Nano as a Rosetta Stone: The Global Roles and Opportunities for Nanoscience and Nanotechnology. <i>ACS Nano</i> , 2019, 13, 10853-10855.	14.6	16
25	Modular Metal-Organic Polyhedra Superassembly: From Molecular-Level Design to Targeted Drug Delivery. <i>Advanced Materials</i> , 2019, 31, e1806774.	21.0	48
26	Conversion of Metal-Organic Cage to Ligand-Free Ultrasmall Noble Metal Nanocluster Catalysts Confined within Mesoporous Silica Nanoparticle Supports. <i>Nano Letters</i> , 2019, 19, 1512-1519.	9.1	36
27	Metal-Organic Framework Nanoparticle-Assisted Cryopreservation of Red Blood Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 7789-7796.	13.7	82
28	SupraCells: Living Mammalian Cells Protected within Functional Modular Nanoparticle-Based Exoskeletons. <i>Advanced Materials</i> , 2019, 31, e1900545.	21.0	96
29	Mathematical modeling in cancer nanomedicine: a review. <i>Biomedical Microdevices</i> , 2019, 21, 40.	2.8	122
30	Predicting breast cancer response to neoadjuvant chemotherapy based on tumor vascular features in needle biopsies. <i>JCI Insight</i> , 2019, 4, .	5.0	17
31	Versatile Surface Functionalization of Metal-Organic Frameworks through Direct Metal Coordination with a Phenolic Lipid Enables Diverse Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705274.	14.9	90
32	Ultra-thin enzymatic liquid membrane for CO ₂ separation and capture. <i>Nature Communications</i> , 2018, 9, 990.	12.8	62
33	Pendant/bridged/mesoporous silsesquioxane nanoparticles: Versatile and biocompatible platforms for smart delivery of therapeutics. <i>Chemical Engineering Journal</i> , 2018, 340, 125-147.	12.7	32
34	Uptake and intracellular fate of cholera toxin subunit b-modified mesoporous silica nanoparticle-supported lipid bilayers (aka protocells) in motoneurons. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 661-672.	3.3	15
35	Multifunctional Protocells for Enhanced Penetration in 3D Extracellular Tumoral Matrices. <i>Chemistry of Materials</i> , 2018, 30, 112-120.	6.7	50
36	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. <i>Nature Communications</i> , 2018, 9, 4551.	12.8	189

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37	Biodegradable Silica-Based Nanoparticles: Dissolution Kinetics and Selective Bond Cleavage. <i>The Enzymes</i> , 2018, 43, 181-214.	1.7	25
38	Understanding the Connection between Nanoparticle Uptake and Cancer Treatment Efficacy using Mathematical Modeling. <i>Scientific Reports</i> , 2018, 8, 7538.	3.3	49
39	Molecular Dynamics Simulations of the Silica-Cell Membrane Interaction: Insights on Biomineralization and Nanotoxicity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21330-21343.	3.1	23
40	Controlled Fabrication of Functional Capsules Based on the Synergistic Interaction between Polyphenols and MOFs under Weak Basic Condition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14258-14264.	8.0	37
41	Bio-inspired Murray materials for mass transfer and activity. <i>Nature Communications</i> , 2017, 8, 14921.	12.8	176
42	Three-Dimensional Encapsulation of <i>Saccharomyces cerevisiae</i> in Silicate Matrices Creates Distinct Metabolic States as Revealed by Gene Chip Analysis. <i>ACS Nano</i> , 2017, 11, 3560-3575.	14.6	17
43	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , 2016, 273, 160-174.	2.5	26
44	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structure-Activity Relationships and Biopersistence in the Lung. <i>ACS Nano</i> , 2016, 10, 8054-8066.	14.6	58
45	Mesoporous Silica Nanoparticle-Supported Lipid Bilayers (Protocells) for Active Targeting and Delivery to Individual Leukemia Cells. <i>ACS Nano</i> , 2016, 10, 8325-8345.	14.6	180
46	Protocells: Modular Mesoporous Silica Nanoparticle-Supported Lipid Bilayers for Drug Delivery. <i>Small</i> , 2016, 12, 2173-2185.	10.0	150
47	Ligand-targeted theranostic nanomedicines against cancer. <i>Journal of Controlled Release</i> , 2016, 240, 267-286.	9.9	154
48	Integrated nanotechnology platform for tumor-targeted multimodal imaging and therapeutic cargo release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1877-1882.	7.1	55
49	Laser Machined Plastic Laminates: Towards Portable Diagnostic Devices for Use in Low Resource Environments. <i>Electroanalysis</i> , 2015, 27, 2503-2512.	2.9	1
50	Silica bioreplication preserves three-dimensional spheroid structures of human pluripotent stem cells and HepG2 cells. <i>Scientific Reports</i> , 2015, 5, 13635.	3.3	25
51	Influence of Silica Matrix Composition and Functional Component Additives on the Bioactivity and Viability of Encapsulated Living Cells. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1231-1238.	5.2	13
52	Ligand-Directed Profiling of Organelles with Internalizing Phage Libraries. <i>Current Protocols in Protein Science</i> , 2015, 79, 30.4.1-30.4.30.	2.8	2
53	Controlling the Metal to Semiconductor Transition of MoS ₂ and WS ₂ in Solution. <i>Journal of the American Chemical Society</i> , 2015, 137, 1742-1745.	13.7	155
54	Nanoporous Silica-Based Protocells at Multiple Scales for Designs of Life and Nanomedicine. <i>Life</i> , 2015, 5, 214-229.	2.4	16

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55	Spray-Dried Multiscale Nano-biocomposites Containing Living Cells. ACS Nano, 2015, 9, 6961-6977.	14.6	24
56	Reduction of Acute Inflammatory Effects of Fumed Silica Nanoparticles in the Lung by Adjusting Silanol Display through Calcination and Metal Doping. ACS Nano, 2015, 9, 9357-9372.	14.6	108
57	Where Are We Heading in Nanotechnology Environmental Health and Safety and Materials Characterization?. ACS Nano, 2015, 9, 5627-5630.	14.6	91
58	Enlarged Pore Size in Mesoporous Silica Films Templated by Pluronic F127: Use of Poloxamer Mixtures and Increased Template/SiO ₂ Ratios in Materials Synthesized by Evaporation-Induced Self-Assembly. Chemistry of Materials, 2015, 27, 75-84.	6.7	50
59	Synthetic fossilization of soft biological tissues and their shape-preserving transformation into silica or electron-conductive replicas. Nature Communications, 2014, 5, 5665.	12.8	27
60	Surface Interactions with Compartmentalized Cellular Phosphates Explain Rare Earth Oxide Nanoparticle Hazard and Provide Opportunities for Safer Design. ACS Nano, 2014, 8, 1771-1783.	14.6	212
61	Porous Ice Phases with VI and Distorted VII Structures Constrained in Nanoporous Silica. Nano Letters, 2014, 14, 6554-6558.	9.1	11
62	Atomic Layer Deposition of α -Alanine Polypeptide. Journal of the American Chemical Society, 2014, 136, 15821-15824.	13.7	7
63	Re-examining the Size/Charge Paradigm: Differing in Vivo Characteristics of Size- and Charge-Matched Mesoporous Silica Nanoparticles. Journal of the American Chemical Society, 2013, 135, 16030-16033.	13.7	77
64	Two-Wave Nanotherapy To Target the Stroma and Optimize Gemcitabine Delivery To a Human Pancreatic Cancer Model in Mice. ACS Nano, 2013, 7, 10048-10065.	14.6	163
65	Quartz on Silicon. Science, 2013, 340, 818-819.	12.6	10
66	Lithographically Defined Macroscale Modulation of Lateral Fluidity and Phase Separation Realized via Patterned Nanoporous Silica-Supported Phospholipid Bilayers. Journal of the American Chemical Society, 2013, 135, 15718-15721.	13.7	10
67	Mesoporous silica-supported lipid bilayers (protocells) for DNA cargo delivery to the spinal cord. Journal of Controlled Release, 2013, 168, 209-224.	9.9	86
68	Mechanistic Modeling Identifies Drug-Uptake History as Predictor of Tumor Drug Resistance and Nano-Carrier-Mediated Response. ACS Nano, 2013, 7, 11174-11182.	14.6	63
69	Revealing the Interfacial Self-Assembly Pathway of Large-Scale, Highly-Ordered, Nanoparticle/Polymer Monolayer Arrays at an Air/Water Interface. Nano Letters, 2013, 13, 1041-1046.	9.1	22
70	Chemically Exfoliated MoS ₂ as Near-Infrared Photothermal Agents. Angewandte Chemie - International Edition, 2013, 52, 4160-4164.	13.8	575
71	Mesoporous Silica Nanoparticle Nanocarriers: Biofunctionality and Biocompatibility. Accounts of Chemical Research, 2013, 46, 792-801.	15.6	801
72	Dip Coating. , 2013, , 233-261.		55

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73	Cellular complexity captured in durable silica biocomposites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17336-17341.	7.1	78
74	Aerosol-assisted synthesis of monodisperse single-crystalline β -cristobalite nanospheres. Chemical Communications, 2012, 48, 1293-1295.	4.1	21
75	Multiphoton Lithography of Nanocrystalline Platinum and Palladium for Site-Specific Catalysis in 3D Microenvironments. Journal of the American Chemical Society, 2012, 134, 4007-4010.	13.7	54
76	Combo combat. Nature Materials, 2012, 11, 831-832.	27.5	14
77	Processing Pathway Dependence of Amorphous Silica Nanoparticle Toxicity: Colloidal vs Pyrolytic. Journal of the American Chemical Society, 2012, 134, 15790-15804.	13.7	372
78	Biocompatible Microfabrication of 3D Isolation Chambers for Targeted Confinement of Individual Cells and Their Progeny. Analytical Chemistry, 2012, 84, 8985-8989.	6.5	26
79	Orthogonal Cell-Based Biosensing: Fluorescent, Electrochemical, and Colorimetric Detection with Silica-Immobilized Cellular Communities Integrated with an ITO-Glass/Plastic Laminate Cartridge. Small, 2012, 8, 2743-2751.	10.0	16
80	Delivery of Ricin Toxin A-Chain by Peptide-Targeted Mesoporous Silica Nanoparticle-Supported Lipid Bilayers. Advanced Healthcare Materials, 2012, 1, 348-353.	7.6	42
81	Delivery of Small Interfering RNA by Peptide-Targeted Mesoporous Silica Nanoparticle-Supported Lipid Bilayers. ACS Nano, 2012, 6, 2174-2188.	14.6	212
82	Minimum thermal conductivity considerations in aerogel thin films. Journal of Applied Physics, 2012, 111, .	2.5	46
83	Hydrothermal synthesis of monodisperse single-crystalline alpha-quartz nanospheres. Chemical Communications, 2011, 47, 7524.	4.1	28
84	X-Ray characterization of self-assembled long-chain phosphatidylcholine/bile salt/silica mesostructured films with nanoscale homogeneity. Chemical Communications, 2011, 47, 1806-1808.	4.1	3
85	Transformation of a Close-Packed Au Nanoparticle/Polymer Monolayer into a Large Area Array of Oriented Au Nanowires via E-beam Promoted Uniaxial Deformation and Room Temperature Sintering. Journal of the American Chemical Society, 2011, 133, 11410-11413.	13.7	10
86	Tricontinuous Cubic Nanostructure and Pore Size Patterning in Mesostructured Silica Films Templated with Glycerol Monooleate. Chemistry of Materials, 2011, 23, 2107-2112.	6.7	9
87	Protein-Directed Assembly of Arbitrary Three-Dimensional Nanoporous Silica Architectures. ACS Nano, 2011, 5, 1401-1409.	14.6	48
88	Cell-Specific Delivery of Diverse Cargos by Bacteriophage MS2 Virus-like Particles. ACS Nano, 2011, 5, 5729-5745.	14.6	286
89	Encapsulation of <i>S. cerevisiae</i> in Poly(glycerol) Silicate Derived Matrices: Effect of Matrix Additives and Cell Metabolic Phase on Long-Term Viability and Rate of Gene Expression. Chemistry of Materials, 2011, 23, 2555-2564.	6.7	35
90	Cell-directed-assembly: Directing the formation of nano/bio interfaces and architectures with living cells. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 259-267.	2.4	30

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91	The targeted delivery of multicomponent cargos to cancer cells by nanoporous particle-supported lipid bilayers. <i>Nature Materials</i> , 2011, 10, 389-397.	27.5	933
92	Convective Assembly of 2D Lattices of Virus-Like Particles Visualized by In-Situ Grazing-Incidence Small-Angle X-Ray Scattering. <i>Small</i> , 2011, 7, 1043-1050.	10.0	15
93	Photoresponsive Release from Azobenzene-Modified Single Cubic Crystal NaCl/Silica Particles. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-6.	2.7	1
94	Integration of a Close-Packed Quantum Dot Monolayer with a Photonic Crystal Cavity Via Interfacial Self-Assembly and Transfer. <i>Small</i> , 2010, 6, 2126-2129.	10.0	13
95	Confinement-induced quorum sensing of individual <i>Staphylococcus aureus</i> bacteria. <i>Nature Chemical Biology</i> , 2010, 6, 41-45.	8.0	189
96	DNA translocation through an array of kinked nanopores. <i>Nature Materials</i> , 2010, 9, 667-675.	27.5	109
97	An inorganic-organic proton exchange membrane for fuel cells with a controlled nanoscale pore structure. <i>Nature Nanotechnology</i> , 2010, 5, 230-236.	31.5	145
98	Cell-Directed Integration into Three-Dimensional Lipid-Silica Nanostructured Matrices. <i>ACS Nano</i> , 2010, 4, 5539-5550.	14.6	33
99	Numerical Simulation of Ethanol-Water-NaCl Droplet Evaporation. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5631-5643.	3.7	20
100	Salt-induced lipid transfer between colloidal supported lipid bilayers. <i>Soft Matter</i> , 2010, 6, 2628.	2.7	8
101	Mechanically tunable multiphoton fabricated protein hydrogels investigated using atomic force microscopy. <i>Soft Matter</i> , 2010, 6, 2842.	2.7	40
102	Tubular ceramic-supported sol-gel silica-based membranes for flue gas carbon dioxide capture and sequestration. <i>Journal of Membrane Science</i> , 2009, 341, 30-36.	8.2	70
103	Characterization of Lipid-Templated Silica and Hybrid Thin Film Mesophases by Grazing Incidence Small-Angle X-ray Scattering. <i>Langmuir</i> , 2009, 25, 9500-9509.	3.5	20
104	Cell-Directed Localization and Orientation of a Functional Foreign Transmembrane Protein within a Silica Nanostructure. <i>Journal of the American Chemical Society</i> , 2009, 131, 14255-14257.	13.7	17
105	Measurements and simulations of the near-surface composition of evaporating ethanol-water droplets. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7780.	2.8	13
106	Electrostatically Mediated Liposome Fusion and Lipid Exchange with a Nanoparticle-Supported Bilayer for Control of Surface Charge, Drug Containment, and Delivery. <i>Journal of the American Chemical Society</i> , 2009, 131, 7567-7569.	13.7	250
107	Porous Nanoparticle Supported Lipid Bilayers (Protocells) as Delivery Vehicles. <i>Journal of the American Chemical Society</i> , 2009, 131, 1354-1355.	13.7	323
108	In-situ fluorescence probing of the chemical and structural changes during formation of hexagonal phase cetyltrimethylammonium bromide and lamellar phase CTAB/Poly(dodecylmethacrylate) sol-gel silica thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 47, 300-310.	2.4	10

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109	Directed Aerosol Writing of Ordered Silica Nanostructures on Arbitrary Surfaces with Self-Assembling Inks. <i>Small</i> , 2008, 4, 982-989.	10.0	31
110	Free-Standing, Patternable Nanoparticle/Polymer Monolayer Arrays Formed by Evaporation Induced Self-Assembly at a Fluid Interface. <i>Journal of the American Chemical Society</i> , 2008, 130, 3284-3285.	13.7	61
111	Corrosion inhibition using superhydrophobic films. <i>Corrosion Science</i> , 2008, 50, 897-902.	6.6	159
112	Dynamic Investigation of Gold Nanocrystal Assembly Using In Situ Grazing-Incidence Small-Angle X-ray Scattering. <i>Langmuir</i> , 2008, 24, 10575-10578.	3.5	34
113	A Molecular Basis for Advanced Materials in Water Treatment. <i>MRS Bulletin</i> , 2008, 33, 42-47.	3.5	20
114	Sub-10 nm Thick Microporous Membranes Made by Plasma-Defined Atomic Layer Deposition of a Bridged Silsesquioxane Precursor. <i>Journal of the American Chemical Society</i> , 2007, 129, 15446-15447.	13.7	47
115	Cell-Directed Assembly of Bio/Nano Interfaces—A New Scheme for Cell Immobilization. <i>Accounts of Chemical Research</i> , 2007, 40, 836-845.	15.6	65
116	Optical Detection of Ion-Channel-Induced Proton Transport in Supported Phospholipid Bilayers. <i>Nano Letters</i> , 2007, 7, 2446-2451.	9.1	23
117	Large-conductance cholesterol—amphotericin B channels in reconstituted lipid bilayers. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1359-1367.	10.1	11
118	Amphotericin B channels in phospholipid membrane-coated nanoporous silicon surfaces: Implications for photovoltaic driving of ions across membranes. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1605-1611.	10.1	8
119	Modulus—density scaling behaviour and framework architecture of nanoporous self-assembled silicas. <i>Nature Materials</i> , 2007, 6, 418-423.	27.5	159
120	Aerosol-Assisted Self-Assembly of Single-Crystal Core/Nanoporous Shell Particles as Model Controlled Release Capsules. <i>Journal of the American Chemical Society</i> , 2006, 128, 4512-4513.	13.7	115
121	Solution Synthesis of Germanium Nanowires Using a Ge ₂ +Alkoxide Precursor. <i>Journal of the American Chemical Society</i> , 2006, 128, 5244-5250.	13.7	96
122	Thermochromatism and Structural Evolution of Metastable Polydiacetylenic Crystals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7221-7225.	2.6	72
123	Nanometer-Thick Conformal Pore Sealing of Self-Assembled Mesoporous Silica by Plasma-Assisted Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2006, 128, 11018-11019.	13.7	55
124	Nanoporous Carbon Nanotubes Synthesized through Confined Hydrogen-Bonding Self-Assembly. <i>Journal of the American Chemical Society</i> , 2006, 128, 9276-9277.	13.7	62
125	Cell-Directed Assembly of Lipid-Silica Nanostructures Providing Extended Cell Viability. <i>Science</i> , 2006, 313, 337-341.	12.6	147
126	Hierarchically Organized Nanoparticle Mesostructure Arrays Formed through Hydrothermal Self-Assembly. <i>Chemistry of Materials</i> , 2006, 18, 3034-3038.	6.7	34

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127	Drying transition of confined water. <i>Nature</i> , 2006, 442, 526-526.	27.8	123
128	Morphological control of surfactant-templated metal oxide films. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 126-132.	7.4	89
129	Two-photon absorption of matrix-free Ge nanocrystals. <i>Applied Physics Letters</i> , 2006, 89, 111107.	3.3	13
130	NANOPARTICLE-MICELLE: A NEW BUILDING BLOCK FOR FACILE SELF-ASSEMBLY AND INTEGRATION OF 2-, 3-DIMENSIONAL FUNCTIONAL NANOSTRUCTURES. <i>Annual Review of Nano Research</i> , 2006, , 153-187.	0.2	0
131	Optical and electrical properties of self-assembled, ordered gold nanocrystal/silica thin films prepared by sol-gel processing. <i>Thin Solid Films</i> , 2005, 491, 38-42.	1.8	21
132	Aqueous sol-gel encapsulation of genetically engineered <i>Moraxella</i> spp. cells for the detection of organophosphates. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1433-1437.	10.1	85
133	Microporous sol-gel derived aminosilicate membrane for enhanced carbon dioxide separation. <i>Separation and Purification Technology</i> , 2005, 42, 249-257.	7.9	86
134	Surface Plasmon Excitation in Three-dimensional, Ordered, Gold Nanocrystal Arrays Using a Prism Coupler. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	0
135	Electrical and Optical Properties of Self-Assembled, Ordered Gold Nanocrystal/Silica Thin Films Prepared by Sol-Gel Processing. <i>Materials Research Society Symposia Proceedings</i> , 2005, 872, 1.	0.1	2
136	Investigating the Interface of Superhydrophobic Surfaces in Contact with Water. <i>Langmuir</i> , 2005, 21, 7805-7811.	3.5	65
137	Quantitative SAXS Analysis of Oriented 2D Hexagonal Cylindrical Silica Mesostructures in Thin Films Obtained from Nonionic Surfactants. <i>Langmuir</i> , 2005, 21, 3858-3866.	3.5	41
138	Neutron Reflectivity Study of Lipid Membranes Assembled on Ordered Nanocomposite and Nanoporous Silica Thin Films. <i>Langmuir</i> , 2005, 21, 2865-2870.	3.5	45
139	Polydiacetylene/Silica Nanocomposites with Tunable Mesostructure and Thermochromatism from Diacetylenic Assembling Molecules. <i>Journal of the American Chemical Society</i> , 2005, 127, 12782-12783.	13.7	107
140	Comparative Study of Inorganic Cluster-Surfactant Arrays. <i>Chemistry of Materials</i> , 2005, 17, 2885-2895.	6.7	75
141	Surfactant-Assisted Synthesis of Water-Soluble and Biocompatible Semiconductor Quantum Dot Micelles. <i>Nano Letters</i> , 2005, 5, 645-648.	9.1	233
142	Synthesis of Organo-Silane Functionalized Nanocrystal Micelles and Their Self-Assembly. <i>Journal of the American Chemical Society</i> , 2005, 127, 13746-13747.	13.7	56
143	A General Route to Macroscopic Hierarchical 3D Nanowire Networks. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6169-6173.	13.8	123
144	Photoregulation of Mass Transport through a Photoresponsive Azobenzene-Modified Nanoporous Membrane. <i>Nano Letters</i> , 2004, 4, 551-554.	9.1	352

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145	Unusual Hydrocarbon Chain Packing Mode and Modification of Crystallite Growth Habit in the		
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163	Novel Amine-Functional Membrane for Metabolic CO ₂ Removal from Spacesuit Breathing Loop. AIP Conference Proceedings, 2003, , .	0.4	1
164	Monodisperse Mesoporous Microparticles Prepared by Evaporation-Induced Self Assembly Within Aerosols. Materials Research Society Symposia Proceedings, 2003, 775, 1111.	0.1	3
165	Self-Directed Assembly of Photoactive Hybrid Silicates Derived from an Azobenzene-Bridged Silsesquioxane. Journal of the American Chemical Society, 2002, 124, 14540-14541.	13.7	124
166	Interface Chemistry of Nanostructured Materials: Ion Adsorption on Mesoporous Alumina. Journal of Colloid and Interface Science, 2002, 254, 23-30.	9.4	80
167	Multiphased assembly of nanoporous silica particles. Journal of Non-Crystalline Solids, 2001, 285, 71-78.	3.1	50
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