

Galen Dean Stucky

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2795815/galen-dean-stucky-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

254
papers

52,141
citations

95
h-index

228
g-index

265
ext. papers

54,880
ext. citations

13.1
avg, IF

7.35
L-index

#	Paper	IF	Citations
254	Glycerol acetalization over highly ordered mesoporous molybdenum dioxide: Excellent catalytic performance, recyclability and water-tolerance. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 , 107, 354-364	6.3	1
253	Redox Enhanced Sodium Metal Batteries by Using Graphene Oxide Encapsulated Mesoporous Carbon Sphere Cathode. <i>Advanced Functional Materials</i> , 2021 , 31, 2101637	15.6	2
252	Rational Component and Structure Design of Noble-Metal Composites for Optical and Catalytic Applications. <i>Small Structures</i> , 2021 , 2, 2000138	8.7	12
251	What Structural Features Make Porous Carbons Work for Redox-Enhanced Electrochemical Capacitors? A Fundamental Investigation. <i>ACS Energy Letters</i> , 2021 , 6, 854-861	20.1	5
250	Simulating Serpentinization as It Could Apply to the Emergence of Life Using the JPL Hydrothermal Reactor. <i>Astrobiology</i> , 2020 , 20, 307-326	3.7	11
249	Electromagnetic microwave absorption theory and recent achievements in microwave absorbers. <i>Carbon</i> , 2020 , 168, 606-623	10.4	148
248	Review on comprehending and enhancing the initial Coulombic efficiency of anode materials in lithium-ion/sodium-ion batteries. <i>Nano Energy</i> , 2020 , 77, 105143	17.1	106
247	Protecting the Nanoscale Properties of Ag Nanowires with a Solution-Grown SnO Monolayer as Corrosion Inhibitor. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13977-13986	16.4	24
246	Size and dimension dependent surface-enhanced Raman scattering properties of well-defined Ag nanocubes. <i>Applied Materials Today</i> , 2019 , 14, 224-232	6.6	27
245	Nitrogen-rich hierarchically porous carbon as a high-rate anode material with ultra-stable cyclability and high capacity for capacitive sodium-ion batteries. <i>Nano Energy</i> , 2019 , 56, 828-839	17.1	169
244	High-rate FeS ₂ /CNT neural network nanostructure composite anodes for stable, high-capacity sodium-ion batteries. <i>Nano Energy</i> , 2018 , 46, 117-127	17.1	162
243	Merely Measuring the UV-Visible Spectrum of Gold Nanoparticles Can Change Their Charge State. <i>Nano Letters</i> , 2018 , 18, 669-674	11.5	12
242	Stackable bipolar pouch cells with corrosion-resistant current collectors enable high-power aqueous electrochemical energy storage. <i>Energy and Environmental Science</i> , 2018 , 11, 2865-2875	35.4	36
241	Microwave-Assisted Synthesis of Ultrastable Cu@TiO ₂ Core-Shell Nanowires with Tunable Diameters via a Redox-Hydrolysis Synergetic Process. <i>ChemNanoMat</i> , 2018 , 4, 914-918	3.5	8
240	Double-Layered Plasmonic-Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold-Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8110-8114	16.4	88
239	Double-Layered Plasmonic-Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold-Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie</i> , 2017 , 129, 8222-8226	3.6	23
238	Properly Structured, Any Metal Can Produce Intense Surface Enhanced Raman Spectra. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14269-14273	3.8	14

237	Carbon nitride supported AgPd alloy nanocatalysts for dehydrogenation of formic acid under visible light. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6382-6387	13	38
236	Redox-Enhanced Electrochemical Capacitors: Status, Opportunity, and Best Practices for Performance Evaluation. <i>ACS Energy Letters</i> , 2017 , 2, 2581-2590	20.1	112
235	High-performance bioelectrocatalysts created by immobilization of an enzyme into carbon-coated composite membranes with nano-tailored structures. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20244-20251	13	12
234	Localization of Short-Chain Polyphosphate Enhances its Ability to Clot Flowing Blood Plasma. <i>Scientific Reports</i> , 2017 , 7, 42119	4.9	8
233	Dual-reporter SERS-based biomolecular assay with reduced false-positive signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9056-9061	11.5	47
232	Fundamentally Addressing Bromine Storage through Reversible Solid-State Confinement in Porous Carbon Electrodes: Design of a High-Performance Dual-Redox Electrochemical Capacitor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9985-9993	16.4	87
231	Polyphosphate-conjugated Silica Nanoparticles (polyP-SNPs) Attenuate Bleeding After Tail Amputation. <i>FASEB Journal</i> , 2017 , 31, 674.13	0.9	
230	Efficient Charge Storage in Dual-Redox Electrochemical Capacitors through Reversible Counterion-Induced Solid Complexation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9373-6	16.4	61
229	Discovery of abnormal lithium-storage sites in molybdenum dioxide electrodes. <i>Nature Communications</i> , 2016 , 7, 11049	17.4	100
228	A plasmonic liquid junction photovoltaic cell with greatly improved power conversion efficiency. <i>Chemical Communications</i> , 2016 , 52, 13460-13462	5.8	5
227	Plasmon-Mediated Photocatalytic Decomposition of Formic Acid on Palladium Nanostructures. <i>Advanced Optical Materials</i> , 2016 , 4, 1041-1046	8.1	22
226	Anisotropic Growth of TiO ₂ onto Gold Nanorods for Plasmon-Enhanced Hydrogen Production from Water Reduction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1114-7	16.4	329
225	Large Format Surface-Enhanced Raman Spectroscopy Substrate Optimized for Enhancement and Uniformity. <i>ACS Nano</i> , 2016 , 10, 7566-71	16.7	111
224	High Thermoelectric Performance of a Heterogeneous PbTe Nanocomposite. <i>Chemistry of Materials</i> , 2015 , 27, 944-949	9.6	90
223	Uniform Concave Polystyrene-Carbon Core-Shell Nanospheres by a Swelling Induced Buckling Process. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9772-5	16.4	42
222	Design of aqueous redox-enhanced electrochemical capacitors with high specific energies and slow self-discharge. <i>Nature Communications</i> , 2015 , 6, 7818	17.4	239
221	Polyimide dendrimers containing multiple electron donor-acceptor units and their unique photophysical properties. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6775-9	16.4	19
220	Constructing Hierarchical Porous Zeolites via Kinetic Regulation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11238-41	16.4	70

219	Identification of active sites in CO oxidation and water-gas shift over supported Pt catalysts. <i>Science</i> , 2015 , 350, 189-92	33.3	659
218	High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19978-85	9.5	61
217	Crystalline poly(triazine imide) based g-CN as an efficient electrocatalyst for counter electrodes of dye-sensitized solar cells using a triiodide/iodide redox electrolyte. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24232-24236	13	27
216	A surface plasmon enabled liquid-junction photovoltaic cell. <i>Faraday Discussions</i> , 2015 , 178, 413-20	3.6	6
215	Nickel oxide encapsulated nitrogen-rich carbon hollow spheres with multiporosity for high-performance pseudocapacitors having extremely robust cycle life. <i>Energy and Environmental Science</i> , 2015 , 8, 188-194	35.4	87
214	Polyimide Dendrimers Containing Multiple Electron Donor/Acceptor Units and Their Unique Photophysical Properties. <i>Angewandte Chemie</i> , 2015 , 127, 6879-6883	3.6	3
213	Clotting Activity of Polyphosphate-Functionalized Silica Nanoparticles. <i>Angewandte Chemie</i> , 2015 , 127, 4090-4094	3.6	5
212	Clotting activity of polyphosphate-functionalized silica nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4018-22	16.4	43
211	Panchromatic photoproduction of H ₂ with surface plasmons. <i>Nano Letters</i> , 2015 , 15, 2132-6	11.5	74
210	Phase stability and property evolution of biphasic Ti _{1-x} Ni _x Sn alloys for use in thermoelectric applications. <i>Journal of Applied Physics</i> , 2014 , 115, 043720	2.5	65
209	Hot carrier filtering in solution processed heterostructures: a paradigm for improving thermoelectric efficiency. <i>Advanced Materials</i> , 2014 , 26, 2755-61, 2618	24	51
208	On the plasmonic photovoltaic. <i>ACS Nano</i> , 2014 , 8, 6066-73	16.7	128
207	In situ generated thrombin in the protein corona of zeolites: Relevance of the functional proteins to its biological impact. <i>Nano Research</i> , 2014 , 7, 1457-1465	10	22
206	Template-free synthesis of high surface area nitrogen-rich carbon microporous spheres and their hydrogen uptake capacity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2227-2232	13	15
205	Electrochemical enzymatic biosensor with long-term stability using hybrid mesoporous membrane. <i>Analyst</i> , 2014 , 139, 4654-60	5	20
204	Enhanced thermoelectric properties of the n-type Mg ₂ Si phase WO _{2.90} : reduced thermal conductivity through microstructure engineering. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13492-13497 ¹³	13	13
203	Heterostructured Approaches to Efficient Thermoelectric Materials. <i>Chemistry of Materials</i> , 2014 , 26, 837-848	9.6	74
202	SPS-assisted preparation of the Mg ₂ Si phase WO _{2.90} for thermoelectric applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13050	13	19

201	Bimodal Mesoporous Titanium Nitride/Carbon Microfibers as Efficient and Stable Electrocatalysts for LiO ₂ Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 3779-3781	9.6	56
200	Influence of Ni nanoparticle addition and spark plasma sintering on the TiNiSn _{1-x} Ni _x system: Structure, microstructure, and thermoelectric properties. <i>Solid State Sciences</i> , 2013 , 26, 16-22	3.4	13
199	Three-dimensional macroscopic assemblies of low-dimensional carbon nitrides for enhanced hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11083-7	16.4	229
198	Three-Dimensional Macroscopic Assemblies of Low-Dimensional Carbon Nitrides for Enhanced Hydrogen Evolution. <i>Angewandte Chemie</i> , 2013 , 125, 11289-11293	3.6	102
197	Improving the thermoelectric properties of half-Heusler TiNiSn through inclusion of a second full-Heusler phase: microwave preparation and spark plasma sintering of TiNi(1+x)Sn. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6990-7	3.6	95
196	Phosphorus stimulated unidirectional growth of TiO ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6091	13	1
195	Cytotoxicity and potency of mesocellular foam-26 in comparison to layered clays used as hemostatic agents. <i>Toxicology Research</i> , 2013 , 2, 136-144	2.6	9
194	The Selective High-Yield Conversion of Methane Using Iodine-Catalyzed Methane Bromination. <i>ACS Catalysis</i> , 2013 , 3, 474-477	13.1	23
193	An autonomous photosynthetic device in which all charge carriers derive from surface plasmons. <i>Nature Nanotechnology</i> , 2013 , 8, 247-51	28.7	891
192	Highly Ordered Mesoporous Crystalline MoSe ₂ Material with Efficient Visible-Light-Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. <i>Advanced Functional Materials</i> , 2013 , 23, 1832-1838	15.6	249
191	Interplay Between Bromine and Iodine in Oxidative Dehydrogenation. <i>ChemCatChem</i> , 2013 , 5, 1906-1910	9.2	18
190	From Melamine-Cyanuric Acid Supramolecular Aggregates to Carbon Nitride Hollow Spheres. <i>Advanced Functional Materials</i> , 2013 , 23, 3661-3667	15.6	585
189	A High Capacity Calcium Primary Cell Based on the Ca/S System. <i>Advanced Energy Materials</i> , 2013 , 3, 1056-1061	21.8	81
188	Spatially heterogeneous carbon-fiber papers as surface dendrite-free current collectors for lithium deposition. <i>Nano Today</i> , 2012 , 7, 10-20	17.9	140
187	Rapid Microwave Preparation of Thermoelectric TiNiSn and TiCoSb Half-Heusler Compounds. <i>Chemistry of Materials</i> , 2012 , 24, 2558-2565	9.6	109
186	Hydrodebromination and Oligomerization of Dibromomethane. <i>ACS Catalysis</i> , 2012 , 2, 479-486	13.1	25
185	Plasmonic photoanodes for solar water splitting with visible light. <i>Nano Letters</i> , 2012 , 12, 5014-9	11.5	430
184	Inkjet printing assisted synthesis of multicomponent mesoporous metal oxides for ultrafast catalyst exploration. <i>Nano Letters</i> , 2012 , 12, 5733-9	11.5	83

183	Iodine Catalyzed Propane Oxidative Dehydrogenation Using Dibromomethane as an Oxidant. <i>ACS Catalysis</i> , 2012 , 2, 1049-1056	13.1	16
182	Silver-based intermetallic heterostructures in Sb ₂ Te ₃ thick films with enhanced thermoelectric power factors. <i>Nano Letters</i> , 2012 , 12, 1075-80	11.5	89
181	Mesoporous Fe-doped TiO ₂ sub-microspheres with enhanced photocatalytic activity under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2012 , 127, 175-181	21.8	43
180	Mesoporous multifunctional upconversion luminescent and magnetic "nanorattle" materials for targeted chemotherapy. <i>Nano Letters</i> , 2012 , 12, 61-7	11.5	340
179	Enhanced thermoelectric properties of bulk TiNiSn via formation of a TiNi ₂ Sn second phase. <i>Applied Physics Letters</i> , 2012 , 101, 183902	3.4	55
178	NIR-triggered release of caged nitric oxide using upconverting nanostructured materials. <i>Small</i> , 2012 , 8, 3800-5	11	154
177	A mesoporous anisotropic n-type Bi ₂ Te ₃ monolith with low thermal conductivity as an efficient thermoelectric material. <i>Advanced Materials</i> , 2012 , 24, 5065-70	24	68
176	C-H Bond Activation by Pd-substituted CeO ₂ : Substituted Ions versus Reduced Species. <i>Chemistry of Materials</i> , 2011 , 23, 5432-5439	9.6	31
175	Container effect in nanocasting synthesis of mesoporous metal oxides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14542-5	16.4	150
174	Amidoximes: promising candidates for CO ₂ capture. <i>Energy and Environmental Science</i> , 2011 , 4, 4528	35.4	70
173	Surfactant-free synthesis of Bi ₂ Te ₃ -Te micro-nano heterostructure with enhanced thermoelectric figure of merit. <i>ACS Nano</i> , 2011 , 5, 3158-65	16.7	96
172	Rare-earth upconverting nanobarcodes for multiplexed biological detection. <i>Small</i> , 2011 , 7, 1972-6	11	87
171	Spontaneous phase separation mediated synthesis of 3D mesoporous carbon with controllable cage and window size. <i>Advanced Materials</i> , 2011 , 23, 2357-61	24	32
170	Porous carbon produced in air: physicochemical properties and stem cell engineering. <i>Advanced Materials</i> , 2011 , 23, 2332-8	24	15
169	Fluorescence upconversion microbarcodes for multiplexed biological detection: nucleic acid encoding. <i>Advanced Materials</i> , 2011 , 23, 3775-9	24	154
168	Compositional tunability and high temperature stability of ceria/zirconia hollow spheres. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10672		18
167	An optimized magnetite microparticle-based phosphopeptide enrichment strategy for identifying multiple phosphorylation sites in an immunoprecipitated protein. <i>Analytical Biochemistry</i> , 2011 , 408, 19-31	3.1	6
166	The nanoscale integration of heterostructures in chemo- and bio-catalysis. <i>Studies in Surface Science and Catalysis</i> , 2010 , 1-8	1.8	0

165	Growth direction determination of a single RuO ₂ nanowire by polarized Raman spectroscopy. <i>Applied Physics Letters</i> , 2010 , 96, 213108	3.4	24
164	High performance separation of aerosol sprayed mesoporous TiO ₂ sub-microspheres from aggregates via density gradient centrifugation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4162		16
163	Morphology-selective synthesis of mesoporous SBA-15 particles over micrometer, submicrometer and nanometer scales. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8483		111
162	Electrodeposited Aluminum-Doped Fe ₂ O ₃ Photoelectrodes: Experiment and Theory. <i>Chemistry of Materials</i> , 2010 , 22, 510-517	9.6	207
161	Fabrication of Ag@SiO ₂ @Y ₂ O ₃ :Er nanostructures for bioimaging: tuning of the upconversion fluorescence with silver nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2850-1	16.4	435
160	Low-temperature pseudomorphic transformation of ordered hierarchical macro-mesoporous SiO ₂ /C nanocomposite to SiC via magnesiothermic reduction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5552-3	16.4	101
159	Silica-Encapsulated Pd Nanoparticles as a Regenerable and Sintering-Resistant Catalyst. <i>ChemCatChem</i> , 2010 , 2, 1318-1324	5.2	47
158	Methane complete and partial oxidation catalyzed by Pt-doped CeO ₂ . <i>Journal of Catalysis</i> , 2010 , 273, 125-137	7.3	163
157	Mesostructured Thin Film Oxides 2010 , 255-279		1
156	An assembly route to inorganic catalytic nanoreactors containing sub-10-nm gold nanoparticles with anti-aggregation properties. <i>Small</i> , 2009 , 5, 361-5	11	185
155	High throughput screening and measurements of proton conductivity of newly developed PEM materials based on proton transport visualization. <i>Journal of Membrane Science</i> , 2009 , 330, 326-333	9.6	2
154	Multifunctional nanosystems at the interface of physical and life sciences. <i>Nano Today</i> , 2009 , 4, 27-36	17.9	111
153	Markedly Improved CO ₂ Capture Efficiency and Stability of Gallium Substituted Hydrotalcites at Elevated Temperatures. <i>Chemistry of Materials</i> , 2009 , 21, 3473-3475	9.6	74
152	Nanotechnology, nanotoxicology, and neuroscience. <i>Progress in Neurobiology</i> , 2009 , 87, 133-70	10.9	313
151	Ordered mesoporous metallic MoO ₂ materials with highly reversible lithium storage capacity. <i>Nano Letters</i> , 2009 , 9, 4215-20	11.5	590
150	Hollow Microporous Cerium Oxide Spheres Templated By Colloidal Silica. <i>Chemistry of Materials</i> , 2009 , 21, 4577-4582	9.6	105
149	Fluorescence Investigations into Complex Coacervation between Polyvinylimidazole and Sodium Alginate. <i>Macromolecules</i> , 2009 , 42, 2168-2176	5.5	44
148	Formation of Hollow Upconversion Rare-Earth Fluoride Nanospheres: Nanoscale Kirkendall Effect During Ion Exchange. <i>Chemistry of Materials</i> , 2009 , 21, 5237-5243	9.6	128

147	Field-Directed and Confined Molecular Assembly of Mesostructured Materials: Basic Principles and New Opportunities. <i>Chemistry of Materials</i> , 2008 , 20, 909-921	9.6	51
146	Size-Dependent Activity of Gold Nanoparticles for Oxygen Electroreduction in Alkaline Electrolyte. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10515-10519	3.8	92
145	Nonaqueous production of nanostructured anatase with high-energy facets. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17563-7	16.4	368
144	Porous carbon and carbon/metal oxide microfibers with well-controlled pore structure and interface. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5034-5	16.4	48
143	Optimizing Sol-Gel Infiltration and Processing Methods for the Fabrication of High-Quality Planar Titania Inverse Opals. <i>Chemistry of Materials</i> , 2008 , 20, 4925-4930	9.6	66
142	Blood clot initiation by mesocellular foams: dependence on nanopore size and enzyme immobilization. <i>Langmuir</i> , 2008 , 24, 14254-60	4	47
141	Enhanced environmental mobility of carbon nanotubes in the presence of humic acid and their removal from aqueous solution. <i>Small</i> , 2008 , 4, 2166-70	11	95
140	A general route to diverse mesoporous metal oxide submicrospheres with highly crystalline frameworks. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8682-6	16.4	143
139	Multifunctional Mesostructured Silica Microspheres from an Ultrasonic Aerosol Spray. <i>Advanced Functional Materials</i> , 2008 , 18, 2956-2962	15.6	49
138	High-Performance, Nondiffusive Crosslinked Polymers for Holographic Data Storage. <i>Advanced Materials</i> , 2008 , 20, 3937-3941	24	14
137	Harnessing the sol-gel process for the assembly of non-silicate mesostructured oxide materials. <i>Accounts of Chemical Research</i> , 2007 , 40, 784-92	24.3	145
136	Controlling Bioprocesses with Inorganic Surfaces: Layered Clay Hemostatic Agents. <i>Chemistry of Materials</i> , 2007 , 19, 4390-4392	9.6	70
135	Assembly of spherical micelles in 2D physical confinements and their replication into mesoporous silica nanorods. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4558		22
134	Metal oxide surface charge mediated hemostasis. <i>Langmuir</i> , 2007 , 23, 11233-8	4	86
133	One-step one-phase synthesis of monodisperse noble-metallic nanoparticles and their colloidal crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6550-1	16.4	478
132	Alkane bromination revisited: "reproportionation" in gas-phase methane bromination leads to higher selectivity for CH ₃ Br at moderate temperatures. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8695-700	2.8	37
131	A general synthetic strategy for oxide-supported metal nanoparticle catalysts. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14278-80	16.4	434
130	Engineering Nanostructures for Single-Molecule Surface-Enhanced Raman Spectroscopy. <i>Israel Journal of Chemistry</i> , 2006 , 46, 283-291	3.4	1

129	Oxide hemostatic activity. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8384-5	16.4	49
128	Nanoparticle Assembly of Ordered Multicomponent Mesoporous Metal Oxides via a Versatile Sol-Gel Process. <i>Chemistry of Materials</i> , 2006 , 18, 6391-6396	9.6	213
127	Testing of modified zeolite hemostatic dressings in a large animal model of lethal groin injury. <i>Journal of Trauma</i> , 2006 , 61, 1312-20		73
126	Spherical bioactive glass with enhanced rates of hydroxyapatite deposition and hemostatic activity. <i>Small</i> , 2006 , 2, 1261-5	11	184
125	Host-guest composites for induced hemostasis and therapeutic healing in traumatic injuries. <i>Journal of Thrombosis and Thrombolysis</i> , 2006 , 22, 55-67	5.1	48
124	3-D molecular assembly of function in titania-based composite material systems. <i>Accounts of Chemical Research</i> , 2005 , 38, 263-71	24.3	129
123	Ag/AgCl-Loaded Ordered Mesoporous Anatase for Photocatalysis. <i>Chemistry of Materials</i> , 2005 , 17, 1409-1415	9.6	106
122	Synthesis of Au nanoclusters supported upon a TiO ₂ nanotube array. <i>Journal of Materials Research</i> , 2005 , 20, 1093-1096	2.5	12
121	Bromine mediated partial oxidation of ethane over nanostructured zirconia supported metal oxide/bromide. <i>Microporous and Mesoporous Materials</i> , 2005 , 79, 205-214	5.3	11
120	Structural analysis of hybrid titania-based mesoporous composites. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9721-30	16.4	74
119	Single-Crystal Mesoporous Silica Ribbons. <i>Angewandte Chemie</i> , 2005 , 117, 336-340	3.6	5
118	The Jaws of Nereis: Microstructure and Mechanical Properties. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 874, 1		2
117	Self-Assembling Microspheres from Charged Functional Polyelectrolytes and Small-Molecule Counterions. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 823, W4.12.1		3
116	Composite mesostructures by nano-confinement. <i>Nature Materials</i> , 2004 , 3, 816-22	27	599
115	A novel integrated process for the functionalization of methane and ethane: bromine as mediator. <i>Catalysis Today</i> , 2004 , 98, 317-322	5.3	32
114	Cubic mesoporous frameworks with a mixed semiconductor nanocrystalline wall structure and enhanced sensitivity to visible light. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3037-40	16.4	64
113	Micrometer-sized spherical assemblies of polypeptides and small molecules by acid-base chemistry. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5652-5	16.4	50
112	Cubic Mesoporous Frameworks with a Mixed Semiconductor Nanocrystalline Wall Structure and Enhanced Sensitivity to Visible Light. <i>Angewandte Chemie</i> , 2004 , 116, 3099-3102	3.6	2

111	Micrometer-Sized Spherical Assemblies of Polypeptides and Small Molecules by Acid-Base Chemistry. <i>Angewandte Chemie</i> , 2004 , 116, 5770-5773	3.6	5
110	C1 Coupling via bromine activation and tandem catalytic condensation and neutralization over CaO/zeolite composites. <i>Chemical Communications</i> , 2004 , 566-7	5.8	41
109	Hydrothermal synthesis, structures and catalytic properties of the new open-framework cobalt tungsten phosphates (enH ₂) ₃ [Co ₃ W ₄ P ₄ O ₂₈] and K ₆ [Co ₃ W ₄ P ₄ O ₂₈]·4H ₂ O. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1567-1571		3
108	Dye-activated hybrid organic/inorganic mesostructured titania waveguides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10826-7	16.4	59
107	Synthesis of Mesoporous Silica Nanofibers with Controlled Pore Architectures. <i>Chemistry of Materials</i> , 2004 , 16, 5169-5181	9.6	68
106	Templated Synthesis of Highly Ordered Mesostructured Nanowires and Nanowire Arrays. <i>Nano Letters</i> , 2004 , 4, 2337-2342	11.5	190
105	Enhanced Mesostructural Order and Changes to Optical and Electrochemical Properties Induced by the Addition of Cerium(III) to Mesoporous Titania Thin Films. <i>Chemistry of Materials</i> , 2004 , 16, 3524-3532	9.6	51
104	Charge-driven flocculation of poly(L-lysine)-gold nanoparticle assemblies leading to hollow microspheres. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5292-9	16.4	111
103	Synthesis and photocatalytic properties of highly crystalline and ordered mesoporous TiO ₂ thin films. <i>Chemical Communications</i> , 2004 , 1670-1	5.8	130
102	Single-crystal mesoporous silica ribbons. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 332-6	16.4	48
101	Cooperative Assembly of Magnetic Nanoparticles and Block Copolypeptides in Aqueous Media. <i>Nano Letters</i> , 2003 , 3, 1489-1493	11.5	259
100	Single-photon hot band absorption induced anti-stokes luminescence of rhodamine 101 in mesostructured thin films. <i>ChemPhysChem</i> , 2003 , 4, 392-5	3.2	26
99	Visible and near-IR luminescence via energy transfer in rare earth doped mesoporous titania thin films with nanocrystalline walls. <i>Journal of Solid State Chemistry</i> , 2003 , 172, 81-88	3.3	203
98	Self-adjusted synthesis of ordered stable mesoporous minerals by acid-base pairs. <i>Nature Materials</i> , 2003 , 2, 159-63	27	418
97	Synthesis of Mesoporous Silica from Commercial Poly(ethylene oxide)/Poly(butylene oxide) Copolymers: Toward the Rational Design of Ordered Mesoporous Materials. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13368-13375	3.4	78
96	Spontaneous formation of nanoparticle vesicles from homopolymer polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8285-9	16.4	125
95	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. <i>Nano Letters</i> , 2003 , 3, 907-911	11.5	61
94	An integrated process for partial oxidation of alkanes. <i>Chemical Communications</i> , 2003 , 2294-5	5.8	44

93	Comment on "High abrasion resistance with sparse mineralization: copper biomineral in worm jaws". <i>Science</i> , 2003 , 301, 1049; author reply 1049	33.3	10
92	Magnetic phase diagram of Eu ₄ Ga ₈ Ge ₁₆ by magnetic susceptibility, heat capacity, and Mössbauer measurements. <i>Physical Review B</i> , 2003 , 68,	3.3	8
91	Sensitized Luminescence of Trivalent Europium by Three-Dimensionally Arranged Anatase Nanocrystals in Mesostructured Titania Thin Films. <i>Angewandte Chemie</i> , 2002 , 114, 1001-1004	3.6	35
90	Sensitized luminescence of trivalent europium by three-dimensionally arranged anatase nanocrystals in mesostructured titania thin films. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 959-62	16.4	195
89	Direct syntheses of ordered SBA-15 mesoporous materials containing arenesulfonic acid groups. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1664-1670		288
88	Magnetic Structure and Thermal Expansion of Eu ₄ Ga ₈ Ge ₁₆ . <i>Materials Research Society Symposia Proceedings</i> , 2002 , 755, 1		1
87	Assembly of Nanoparticles into Hollow Spheres Using Block Copolypeptides. <i>Nano Letters</i> , 2002 , 2, 583-587		270
86	Benzyl Alcohol and Titanium Tetrachloride A Versatile Reaction System for the Nonaqueous and Low-Temperature Preparation of Crystalline and Luminescent Titania Nanoparticles. <i>Chemistry of Materials</i> , 2002 , 14, 4364-4370	9.6	371
85	General Predictive Syntheses of Cubic, Hexagonal, and Lamellar Silica and Titania Mesostructured Thin Films. <i>Chemistry of Materials</i> , 2002 , 14, 3284-3294	9.6	619
84	Synthesis of Mesoporous Carbon Foams Templated by Organic Colloids. <i>Chemistry of Materials</i> , 2002 , 14, 1665-1670	9.6	74
83	Synthesis and luminescence properties of mesostructured thin films activated by in-situ formed trivalent rare earth ion complexes. <i>Chemical Communications</i> , 2002 , 2474-2475	5.8	56
82	Mesostructured materials for optical applications: from low-k dielectrics to sensors and lasers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57, 2049-60	4.4	91
81	Band structures and thermoelectric properties of the clathrates Ba ₈ Ga ₁₆ Ge ₃₀ , Sr ₈ Ga ₁₆ Ge ₃₀ , Ba ₈ Ga ₁₆ Si ₃₀ , and Ba ₈ In ₁₆ Sn ₃₀ . <i>Journal of Chemical Physics</i> , 2001 , 115, 8060-8073	3.9	128
80	Structure and stability of the clathrates Ba ₈ Ga ₁₆ Ge ₃₀ , Sr ₈ Ga ₁₆ Ge ₃₀ , Ba ₈ Ga ₁₆ Si ₃₀ , and Ba ₈ In ₁₆ Sn ₃₀ . <i>Journal of Chemical Physics</i> , 2001 , 114, 10063-10074	3.9	126
79	Salt effect in the synthesis of mesoporous silica templated by non-ionic block copolymers. <i>Chemical Communications</i> , 2001 , 2726-2727	5.8	116
78	pH Sensing with mesoporous thin films. <i>Chemical Communications</i> , 2001 , 119-120	5.8	210
77	Synthesis of Mesocellular Silica Foams with Tunable Window and Cell Dimensions. <i>Chemistry of Materials</i> , 2001 , 13, 28-34	9.6	55
76	Mesoporous Silica Fibers: Synthesis, Internal Structure, and Growth Kinetics. <i>Chemistry of Materials</i> , 2001 , 13, 3587-3595	9.6	129

75	Patterned Block-Copolymer-Silica Mesoporous Structures as Host Media for the Laser Dye Rhodamine 6G. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6307-6313	3.4	69
74	Hydrothermal syntheses and structures of three one-dimensional heteropolytungstates formed by Dawson or Keggin cluster units. <i>Dalton Transactions RSC</i> , 2001 , 2009-2014		158
73	Mesoporous and Mesoporous Materials for Optical Applications. <i>Chemistry of Materials</i> , 2001 , 13, 3140-3150	9.6	573
72	The Facile Synthesis of Nanocrystalline Semiconductor Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 231		3
71	Host-Guest Symmetry and Charge Matching in Two Germanates with Intersecting Three-Dimensional Channels. <i>Chemistry of Materials</i> , 2000 , 12, 1505-1507	9.6	50
70	Angular Fourier Mapping; Highlighting lattice structures without destroying original data. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 620, 1		1
69	Ordered mesoporous materials with optical functionality. <i>ChemPhysChem</i> , 2000 , 1, 90-2	3.2	20
68	Biomimetic synthesis of ordered silica structures mediated by block copolypeptides. <i>Nature</i> , 2000 , 403, 289-92	50.4	601
67	Direct imaging of the pores and cages of three-dimensional mesoporous materials. <i>Nature</i> , 2000 , 408, 449-53	50.4	754
66	Preparation of Noble Metal Nanowires Using Hexagonal Mesoporous Silica SBA-15. <i>Chemistry of Materials</i> , 2000 , 12, 2068-2069	9.6	584
65	Morphological Control of Highly Ordered Mesoporous Silica SBA-15. <i>Chemistry of Materials</i> , 2000 , 12, 275-279	9.6	979
64	Mirrorless lasing from mesoporous waveguides patterned by soft lithography. <i>Science</i> , 2000 , 287, 465-8	33.3	449
63	Microemulsion Templates for Mesoporous Silica. <i>Langmuir</i> , 2000 , 16, 356-361	4	134
62	The cation-vacancy ordering transition in dehydrated Na ₆ sodalite. <i>Journal of Chemical Physics</i> , 2000 , 113, 10226-10239	3.9	13
61	First Open-Framework Zinc Germanates by a Molecular Templating Route. <i>Chemistry of Materials</i> , 2000 , 12, 1811-1813	9.6	39
60	Control of structural ordering in crystalline lamellar aluminophosphates with periodicity from 51 to 62 Å. <i>Inorganic Chemistry</i> , 2000 , 39, 2-3	5.1	42
59	Microemulsion Templating of Siliceous Mesoporous Cellular Foams with Well-Defined Ultralarge Mesopores. <i>Chemistry of Materials</i> , 2000 , 12, 686-696	9.6	513
58	One-step synthesis of ordered mesocomposites with non-ionic amphiphilic block copolymers: implications of isoelectric point, hydrolysis rate and fluoride. <i>Chemical Communications</i> , 2000 , 2437-2438 ^{5.8}		64

57	Hexagonal to Mesocellular Foam Phase Transition in Polymer-Templated Mesoporous Silicas. <i>Langmuir</i> , 2000 , 16, 8291-8295	4	374
56	Synthesis of highly ordered mesoporous silica materials using sodium silicate and amphiphilic block copolymers. <i>Chemical Communications</i> , 2000 , 1159-1160	5.8	158
55	Magnetism of F centers; Indication of an antiferromagnetic phase transition in potassium-electro-sodalite. <i>Journal of the Serbian Chemical Society</i> , 2000 , 65, 311-314	0.9	17
54	Molecular mechanistic origin of the toughness of natural adhesives, fibres and composites. <i>Nature</i> , 1999 , 399, 761-763	50.4	1008
53	Block Copolymer Templating Syntheses of Mesoporous Metal Oxides with Large Ordering Lengths and Semicrystalline Framework. <i>Chemistry of Materials</i> , 1999 , 11, 2813-2826	9.6	1011
52	Doped Mesoporous Silica Fibers: A New Laser Material. <i>Advanced Materials</i> , 1999 , 11, 632-636	24	201
51	Die effiziente Katalyse der Polysiloxan-Synthese durch Silicatein erfordert spezifisch positionierte Hydroxy- und Imidazolylgruppen. <i>Angewandte Chemie</i> , 1999 , 111, 825-828	3.6	16
50	Efficient Catalysis of Polysiloxane Synthesis by Silicatein Requires Specific Hydroxy and Imidazole Functionalities. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 779-782	16.4	187
49	Isomorphic Substitution and Postsynthesis Incorporation of Zirconium into MCM-48 Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 2037-2041	3.4	115
48	Mesoporous Silicate Sequestration and Release of Proteins. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9897-9898	16.4	333
47	Evaluating Pore Sizes in Mesoporous Materials: A Simplified Standard Adsorption Method and a Simplified Broekhoff-de Boer Method. <i>Langmuir</i> , 1999 , 15, 5403-5409	4	406
46	Transformation of 4-Connected Zeolite Topologies into a Mixed 4- and 6-Connected 3-Dimensional Open Framework. <i>Chemistry of Materials</i> , 1999 , 11, 3025-3027	9.6	23
45	Isolation of Germanate Sheets with Three-Membered Rings: A Possible Precursor to Three-Dimensional Zeolite-Type Germanates. <i>Chemistry of Materials</i> , 1999 , 11, 3423-3424	9.6	34
44	Nonionic Triblock and Star Diblock Copolymer and Oligomeric Surfactant Syntheses of Highly Ordered, Hydrothermally Stable, Mesoporous Silica Structures. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6024-6036	16.4	5794
43	Generalized syntheses of large-pore mesoporous metal oxides with semicrystalline frameworks. <i>Nature</i> , 1998 , 396, 152-155	50.4	2217
42	Synthesis and organization of zeolite-like materials with three-dimensional helical pores. <i>Nature</i> , 1998 , 395, 154-157	50.4	256
41	Oxidized thin films of c(60) : a new humidity-sensing material. <i>Advanced Materials</i> , 1998 , 10, 462-5	24	23
40	Continuous Mesoporous Silica Films with Highly Ordered Large Pore Structures. <i>Advanced Materials</i> , 1998 , 10, 1380-1385	24	765

39	Triblock copolymer syntheses of mesoporous silica with periodic 50 to 300 angstrom pores. <i>Science</i> , 1998 , 279, 548-52	33.3	9892
38	Cobalt Phosphate Based Zeolite Structures with the Edingtonite Framework Topology. <i>Chemistry of Materials</i> , 1998 , 10, 2546-2551	9.6	17
37	Novel Germanate Zeolite Structures with 3-Rings. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11204-11205	16.4	83
36	Hydrothermal Synthesis and Structural Characterization of Zeolite-like Structures Based on Gallium and Aluminum Germanates. <i>Journal of the American Chemical Society</i> , 1998 , 120, 13389-13397	16.4	166
35	Improvement of the Thermal Stability of Mesostructured Metal Oxides with Zirconia as the Example. <i>Studies in Surface Science and Catalysis</i> , 1998 , 117, 527-534	1.8	6
34	Ionic Conductivity of C60-Based Solid Electrolyte. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 227-242		9
33	Characterization of C60-Based Solid Electrolyte, and Compositional Dependence of the Humidity Sensing Effect. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 243-257		
32	Continuous Mesoporous Silica Films with Highly Ordered Large Pore Structures 1998 , 10, 1380		2
31	Control of Inorganic Layer Thickness in Self-Assembled Iron Oxide/Surfactant Composites. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8652-8661	16.4	54
30	Single-Crystal Structures and Optical Properties of the Nonlinear Optical KTiOPO ₄ -Type Materials K _{0.55} Li _{0.45} TiOPO ₄ and K _{0.54} Li _{0.46} TiOAsO ₄ Prepared by Molten Salt Ion-Exchange. <i>Chemistry of Materials</i> , 1997 , 9, 1138-1144	9.6	19
29	Comparative Study of XPS and DFT with Reference to the Distributions of Al in Tetrahedral and Octahedral Sheets of Phyllosilicates. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1125-1129	3.4	50
28	Large-cage zeolite structures with multidimensional 12-ring channels. <i>Science</i> , 1997 , 278, 2080-5	33.3	278
27	Hydrothermal syntheses and structural characterization of zeolite analogue compounds based on cobalt phosphate. <i>Nature</i> , 1997 , 388, 735-741	50.4	490
26	Room temperature growth of mesoporous silica fibers: A new high-surface-area optical waveguide. <i>Advanced Materials</i> , 1997 , 9, 974-978	24	257
25	Pseudotetrahedral O ₃ /2VO Centers Immobilized on the Walls of a Mesoporous, Cubic MCM-48 Support: Preparation, Characterization, and Reactivity toward Water As Investigated by 51V NMR and UV-Vis Spectroscopies. <i>Chemistry of Materials</i> , 1996 , 8, 486-492	9.6	234
24	Critical Transitions in the Biofabrication of Abalone Shells and Flat Pearls. <i>Chemistry of Materials</i> , 1996 , 8, 679-690	9.6	202
23	Synthesis, Characterization and Tunable Electronic/Optical Properties of II-VI Semiconductor Species Included in the Sodalite Structure. <i>Chemistry of Materials</i> , 1996 , 8, 1930-1943	9.6	26
22	Ein poröses Zirconiumoxophosphat sehr hoher Oberfläche durch eine tensidunterstützte Synthese. <i>Angewandte Chemie</i> , 1996 , 108, 597-600	3.6	42

21	Formation of a Porous Zirconium Oxo Phosphate with a High Surface Area by a Surfactant-Assisted Synthesis. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 541-543		330
20	An investigation of the electronic and optical properties of dehydrated sodalite fully doped with Na. <i>Journal of Chemical Physics</i> , 1996 , 104, 8721-8729	3.9	27
19	Comment on: Modified KTiOPO ₄ crystals for noncritical phase matching applications [Appl. Phys. Lett. 64, 16 (1994)]. <i>Applied Physics Letters</i> , 1995 , 66, 3069-3070	3.4	3
18	Design und Synthese von Materialien mit offenen Gerüsten: ein unterbrochener und ein aufgeweiteter Sodalith. <i>Angewandte Chemie</i> , 1995 , 107, 1911-1913	3.6	8
17	The properties of electrons in sodalite saturated with alkali atoms. <i>Journal of Chemical Physics</i> , 1994 , 100, 6944-6952	3.9	24
16	Generalized synthesis of periodic surfactant/inorganic composite materials. <i>Nature</i> , 1994 , 368, 317-321	50.4	1818
15	The Synthesis and Ab Initio Structure Determination of Zn ₄ O(BO ₃) ₂ , a Microporous, Zincoborate Constructed of Based Subunits, of Three- and Five-Membered Rings. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 724-726		43
14	Mesostructure Silicate Names. <i>Science</i> , 1993 , 262, 640-640	33.3	
13	The absorption spectrum of an electron solvated in sodalite. <i>Journal of Chemical Physics</i> , 1992 , 96, 3495-3502	3.9	30
12	Synthesis, Structural and Optical Characterization of Zinc Chalcogenides in Novel Solid State Hosts. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 242, 249		2
11	Genetic Coding in Biomineralization of Microlaminate Composites. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 292, 59		12
10	Low-temperature synthesis of hydrated zinc(beryllo)-phosphate and arsenate molecular sieves. <i>Nature</i> , 1991 , 349, 508-510	50.4	327
9	The Synthesis and Structure of Some New Sodalites: The Lithium Haloberyllophosphates and -Arsenates. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1169-1171		19
8	Synthese und Struktur einiger neuer Sodalithe: Lithiumhalogenoberyllophosphate und -arsenate. <i>Angewandte Chemie</i> , 1991 , 103, 1191-1192	3.6	12
7	Mixed semiconductor component quantum supralattices: Silver, sodium chloro, iodo-sodalites. <i>Advanced Materials</i> , 1991 , 3, 306-309	24	9
6	Intrazeolite Semiconductor Quantum Dots and Quantum Supralattices. <i>ACS Symposium Series</i> , 1991 , 554-581	0.4	9
5	The Chemistry and Packaging of Nanocomposite Confined Arrays. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 206, 507		4
4	EXAFS Analysis of Size-Constrained Semiconducting Materials. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990 , 181, 305-314		1

- 3 Molecular resolution images of amino acid crystals with the atomic force microscope. *Nature*, **1988**, 332, 332-334 50.4 118
- 2 Bacterial Interactions with CdSe Quantum Dots and Environmental Implications 197-231 3
- 1 The Interface of Nanoscale Inclusion Chemistry. *Progress in Inorganic Chemistry*, 99-178 21