

Kenneth S Suslick

List of Publications by Year in descending order

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346
papers

44,113
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1893

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2178

202
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363
all docs

363
docs citations

363
times ranked

31012
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonochemistry. <i>Science</i> , 1990, 247, 1439-1445.	12.6	2,521
2	Applications of Ultrasound to the Synthesis of Nanostructured Materials. <i>Advanced Materials</i> , 2010, 22, 1039-1059.	21.0	1,530
3	APPLICATIONS OF ULTRASOUND TO MATERIALS CHEMISTRY. <i>Annual Review of Materials Research</i> , 1999, 29, 295-326.	5.5	1,436
4	A colorimetric sensor array for odour visualization. <i>Nature</i> , 2000, 406, 710-713.	27.8	1,323
5	Sonochemical synthesis of amorphous iron. <i>Nature</i> , 1991, 353, 414-416.	27.8	1,173
6	Sonochemical hot spot. <i>Journal of the American Chemical Society</i> , 1986, 108, 5641-5642.	13.7	1,133
7	The Temperature of Cavitation. <i>Science</i> , 1991, 253, 1397-1399.	12.6	1,038
8	Sonochemical synthesis of nanomaterials. <i>Chemical Society Reviews</i> , 2013, 42, 2555-2567.	38.1	893
9	The Chemical Effects of Ultrasound. <i>Scientific American</i> , 1989, 260, 80-86.	1.0	762
10	Optical sensor arrays for chemical sensing: the optoelectronic nose. <i>Chemical Society Reviews</i> , 2013, 42, 8649.	38.1	760
11	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. <i>Chemical Reviews</i> , 2019, 119, 231-292.	47.7	718
12	Acoustic cavitation and its chemical consequences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999, 357, 335-353.	3.4	611
13	Sonochemical Synthesis of Iron Colloids. <i>Journal of the American Chemical Society</i> , 1996, 118, 11960-11961.	13.7	551
14	Interparticle collisions driven by ultrasound. <i>Science</i> , 1990, 247, 1067-1069.	12.6	549
15	Plasma formation and temperature measurement during single-bubble cavitation. <i>Nature</i> , 2005, 434, 52-55.	27.8	540
16	Inside a Collapsing Bubble: Sonoluminescence and the Conditions During Cavitation. <i>Annual Review of Physical Chemistry</i> , 2008, 59, 659-683.	10.8	532
17	One-dimensional coordination polymers: Applications to material science. <i>Coordination Chemistry Reviews</i> , 1993, 128, 293-322.	18.8	522
18	Microporous Porphyrin Solids. <i>Accounts of Chemical Research</i> , 2005, 38, 283-291.	15.6	472

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19	Sonoluminescence temperatures during multi-bubble cavitation. <i>Nature</i> , 1999, 401, 772-775.	27.8	455
20	Water-soluble Fluorescent Silver Nanoclusters. <i>Advanced Materials</i> , 2010, 22, 1078-1082.	21.0	444
21	Colorimetric Sensor Arrays for Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2006, 78, 3591-3600.	6.5	441
22	A functional zeolite analogue assembled from metalloporphyrins. <i>Nature Materials</i> , 2002, 1, 118-121.	27.5	434
23	An optoelectronic nose for the detection of toxic gases. <i>Nature Chemistry</i> , 2009, 1, 562-567.	13.6	420
24	Dendrimer-Metalloporphyrins: Synthesis and Catalysis. <i>Journal of the American Chemical Society</i> , 1996, 118, 5708-5711.	13.7	393
25	Synthetic hosts by monomolecular imprinting inside dendrimers. <i>Nature</i> , 2002, 418, 399-403.	27.8	383
26	Sonochemical Preparation of Hollow Nanospheres and Hollow Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 2368-2369.	13.7	358
27	Sonochemical Synthesis of Highly Fluorescent Ag Nanoclusters. <i>ACS Nano</i> , 2010, 4, 3209-3214.	14.6	358
28	Nanotechnology, nanotoxicology, and neuroscience. <i>Progress in Neurobiology</i> , 2009, 87, 133-170.	5.7	356
29	On the origin of sonoluminescence and sonochemistry. <i>Ultrasonics</i> , 1990, 28, 280-290.	3.9	346
30	The energy efficiency of formation of photons, radicals and ions during single-bubble cavitation. <i>Nature</i> , 2002, 418, 394-397.	27.8	342
31	Nature of O ₂ and CO binding to metalloporphyrins and heme proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976, 73, 3333-3337.	7.1	333
32	Sonochemical Synthesis of Nanostructured Molybdenum Sulfide. <i>Journal of the American Chemical Society</i> , 1998, 120, 6189-6190.	13.7	300
33	A Colorimetric Sensor Array for Organics in Water. <i>Journal of the American Chemical Society</i> , 2005, 127, 11548-11549.	13.7	289
34	Nanostructured Materials Generated by High-Intensity Ultrasound: Sonochemical Synthesis and Catalytic Studies. <i>Chemistry of Materials</i> , 1996, 8, 2172-2179.	6.7	287
35	Colorimetric sensor arrays for molecular recognition. <i>Tetrahedron</i> , 2004, 60, 11133-11138.	1.9	282
36	Hot Spot Conditions during Cavitation in Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 5817-5818.	13.7	279

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37	Shape-selective alkane hydroxylation by metalloporphyrin catalysts. <i>Journal of the American Chemical Society</i> , 1986, 108, 7281-7286.	13.7	275
38	Molecular Recognition and Discrimination of Amines with a Colorimetric Array. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4528-4532.	13.8	262
39	Nanostructured Molybdenum Carbide: Sonochemical Synthesis and Catalytic Properties. <i>Journal of the American Chemical Society</i> , 1996, 118, 5492-5493.	13.7	261
40	Protein microencapsulation of nonaqueous liquids. <i>Journal of the American Chemical Society</i> , 1990, 112, 7807-7809.	13.7	256
41	A Colorimetric Sensor Array for Detection of Triacetone Triperoxide Vapor. <i>Journal of the American Chemical Society</i> , 2010, 132, 15519-15521.	13.7	250
42	Preoxidation for Colorimetric Sensor Array Detection of VOCs. <i>Journal of the American Chemical Society</i> , 2011, 133, 16786-16789.	13.7	242
43	A Simple and Highly Sensitive Colorimetric Detection Method for Gaseous Formaldehyde. <i>Journal of the American Chemical Society</i> , 2010, 132, 4046-4047.	13.7	237
44	Engineered microsphere contrast agents for optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1546.	3.3	234
45	Sonochemical Synthesis of Nanosized Hollow Hematite. <i>Journal of the American Chemical Society</i> , 2007, 129, 2242-2243.	13.7	234
46	Models for the active site of oxygen-binding hemoproteins. Dioxygen binding properties and the structures of (2-methylimidazole)-meso-tetra(α,α,α,α-o-pivalamidophenyl)porphyrinatoiron(II)-ethanol and its dioxygen adduct. <i>Journal of the American Chemical Society</i> , 1980, 102, 3224-3237.	13.7	233
47	Poros MoS ₂ Synthesized by Ultrasonic Spray Pyrolysis. <i>Journal of the American Chemical Society</i> , 2005, 127, 9990-9991.	13.7	233
48	Rapid Identification of Bacteria with a Disposable Colorimetric Sensing Array. <i>Journal of the American Chemical Society</i> , 2011, 133, 7571-7576.	13.7	230
49	Discrimination of Complex Mixtures by a Colorimetric Sensor Array: Coffee Aromas. <i>Analytical Chemistry</i> , 2010, 82, 2067-2073.	6.5	217
50	Colorimetric Sensor Array for Soft Drink Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 237-242.	5.2	215
51	Air-filled proteinaceous microbubbles: synthesis of an echo-contrast agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 7708-7710.	7.1	206
52	Colorimetric Sensor Arrays for the Analysis of Beers: A Feasibility Study. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4925-4931.	5.2	203
53	A colorimetric sensor array for identification of toxic gases below permissible exposure limits. <i>Chemical Communications</i> , 2010, 46, 2037.	4.1	203
54	BiVO ₄ as a Visible-Light Photocatalyst Prepared by Ultrasonic Spray Pyrolysis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11980-11983.	3.1	202

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55	Exhaled Breath Analysis with a Colorimetric Sensor Array for the Identification and Characterization of Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2012, 7, 137-142.	1.1	201
56	Chemistry Induced by Hydrodynamic Cavitation. <i>Journal of the American Chemical Society</i> , 1997, 119, 9303-9304.	13.7	200
57	Colorimetric Sensor Array for Determination and Identification of Toxic Industrial Chemicals. <i>Analytical Chemistry</i> , 2010, 82, 9433-9440.	6.5	200
58	Comparison of Multibubble and Single-Bubble Sonoluminescence Spectra. <i>Physical Review Letters</i> , 1995, 75, 2602-2605.	7.8	190
59	High Velocity Interparticle Collisions Driven by Ultrasound. <i>Journal of the American Chemical Society</i> , 2004, 126, 13890-13891.	13.7	186
60	Oxygen binding to cobalt porphyrins. <i>Journal of the American Chemical Society</i> , 1978, 100, 2761-2766.	13.7	185
61	Variation of Protein Corona Composition of Gold Nanoparticles Following Plasmonic Heating. <i>Nano Letters</i> , 2014, 14, 6-12.	9.1	184
62	Sonocrystallization and sonofragmentation. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1908-1915.	8.2	179
63	The materials chemistry of porphyrins and metalloporphyrins. , 2000, 04, 407-413.		176
64	Hydrogen-Bonded Porphyrinic Solids: Supramolecular Networks of Octahydroxy Porphyrins. <i>Journal of the American Chemical Society</i> , 1997, 119, 8492-8502.	13.7	175
65	Alkane sonochemistry. <i>The Journal of Physical Chemistry</i> , 1983, 87, 2299-2301.	2.9	174
66	Push-pull porphyrins as nonlinear optical materials. <i>Journal of the American Chemical Society</i> , 1992, 114, 6928-6930.	13.7	174
67	Molecular emission from single-bubble sonoluminescence. <i>Nature</i> , 2000, 407, 877-879.	27.8	172
68	Magnetomotive contrast for in vivo optical coherence tomography. <i>Optics Express</i> , 2005, 13, 6597.	3.4	172
69	Magnetic and Porous Nanospheres from Ultrasonic Spray Pyrolysis. <i>Journal of the American Chemical Society</i> , 2005, 127, 12007-12010.	13.7	171
70	Light from sonication of crystal slurries. <i>Nature</i> , 2006, 444, 163-163.	27.8	158
71	Porous, Hollow, and Ball-in-Ball Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity. <i>Advanced Materials</i> , 2006, 18, 1832-1837.	21.0	155
72	Sonochemical Preparation of Functionalized Graphenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9148-9151.	13.7	151

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73	Heterogeneous sonocatalysis with nickel powder. <i>Journal of the American Chemical Society</i> , 1987, 109, 3459-3461.	13.7	149
74	Magnetic properties of amorphous iron. <i>Physical Review B</i> , 1993, 48, 269-273.	3.2	147
75	Nanostructured ZnS:Ni ²⁺ Photocatalysts Prepared by Ultrasonic Spray Pyrolysis. <i>Advanced Materials</i> , 2008, 20, 2599-2603.	21.0	143
76	Applications of Ultrasound to Materials Chemistry. <i>MRS Bulletin</i> , 1995, 20, 29-34.	3.5	141
77	Porous Carbon Powders Prepared by Ultrasonic Spray Pyrolysis. <i>Journal of the American Chemical Society</i> , 2006, 128, 12642-12643.	13.7	141
78	Extreme conditions during multibubble cavitation: Sonoluminescence as a spectroscopic probe. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 842-846.	8.2	141
79	Molecular Imprinting Inside Dendrimers. <i>Journal of the American Chemical Society</i> , 2003, 125, 13504-13518.	13.7	139
80	Colorimetric Detection and Identification of Natural and Artificial Sweeteners. <i>Analytical Chemistry</i> , 2009, 81, 6526-6533.	6.5	138
81	Sonofragmentation of Molecular Crystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 14530-14533.	13.7	138
82	An optoelectronic nose for identification of explosives. <i>Chemical Science</i> , 2016, 7, 199-206.	7.4	138
83	Is the olfactory receptor a metalloprotein?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3035-3039.	7.1	133
84	An Optoelectronic Nose: "Seeing" Smells by Means of Colorimetric Sensor Arrays. <i>MRS Bulletin</i> , 2004, 29, 720-725.	3.5	133
85	Sonochemistry and sonocatalysis of metal carbonyls. <i>Journal of the American Chemical Society</i> , 1983, 105, 5781-5785.	13.7	132
86	Effects of high intensity ultrasound on inorganic solids. <i>Ultrasonics</i> , 1987, 25, 56-59.	3.9	132
87	Sonochemistry and Sonoluminescence of Room-Temperature Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2003, 125, 11138-11139.	13.7	132
88	Portable Optoelectronic Nose for Monitoring Meat Freshness. <i>ACS Sensors</i> , 2016, 1, 1330-1335.	7.8	128
89	A Robust Microporous Zinc Porphyrin Framework Solid. <i>Inorganic Chemistry</i> , 2003, 42, 7719-7721.	4.0	122
90	Photochemical reduction of nitrate and nitrite by manganese and iron porphyrins. <i>Inorganic Chemistry</i> , 1991, 30, 912-919.	4.0	120

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91	Chemical Aerosol Flow Synthesis of Semiconductor Nanoparticles. <i>Journal of the American Chemical Society</i> , 2005, 127, 12196-12197.	13.7	120
92	Sonochemical synthesis of nanostructured catalysts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 204, 186-192.	5.6	118
93	Tumor Targeting by Surface-Modified Protein Microspheres. <i>Journal of the American Chemical Society</i> , 2006, 128, 3472-3473.	13.7	118
94	Temperature of Multibubble Sonoluminescence in Water. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10783-10788.	2.5	114
95	A Colorimetric Sensor Array for Detection and Identification of Sugars. <i>Organic Letters</i> , 2008, 10, 4405-4408.	4.6	113
96	Shape selective epoxidation of alkenes by metalloporphyrin-dendrimers. <i>Journal of Molecular Catalysis A</i> , 1996, 113, 109-116.	4.8	112
97	Sonoluminescence from nonaqueous liquids: emission from small molecules. <i>Journal of the American Chemical Society</i> , 1989, 111, 6987-6992.	13.7	111
98	Sonochemistry in non-aqueous liquids. <i>Ultrasonics</i> , 1984, 22, 33-36.	3.9	110
99	Sonoluminescence from non-aqueous liquids. <i>Nature</i> , 1987, 330, 553-555.	27.8	109
100	Characterization of sonochemically prepared proteinaceous microspheres. <i>Ultrasonics Sonochemistry</i> , 1994, 1, S65-S68.	8.2	108
101	Effect of cavitation conditions on amorphous metal synthesis. <i>Ultrasonics</i> , 1992, 30, 168-172.	3.9	105
102	Langmuir-Blodgett Films of Amphiphilic Push-Pull Porphyrins. <i>The Journal of Physical Chemistry</i> , 1994, 98, 383-385.	2.9	105
103	A perspective on four new porphyrin-based functional materials and devices. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 243-258.	0.8	104
104	Colorimetric Recognition of Aldehydes and Ketones. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9860-9863.	13.8	103
105	Spatial Separation of Cavitating Bubble Populations: The Nanodroplet Injection Model. <i>Journal of the American Chemical Society</i> , 2009, 131, 6060-6061.	13.7	97
106	Pressure during Sonoluminescence. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7303-7306.	2.6	96
107	Mechanochemistry and sonochemistry: concluding remarks. <i>Faraday Discussions</i> , 2014, 170, 411-422.	3.2	96
108	Inertially confined plasma in an imploding bubble. <i>Nature Physics</i> , 2010, 6, 598-601.	16.7	95

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109	Chemically Responsive Nanoporous Pigments: Colorimetric Sensor Arrays and the Identification of Aliphatic Amines. <i>Langmuir</i> , 2008, 24, 13168-13172.	3.5	93
110	Structural changes upon oxygenation of an iron(II)(porphyrinato)(imidazole) complex. <i>Journal of the American Chemical Society</i> , 1978, 100, 6769-6770.	13.7	92
111	The sonochemistry of zinc powder. <i>Journal of the American Chemical Society</i> , 1989, 111, 2342-2344.	13.7	92
112	Sonoluminescence from alkali-metal salt solutions. <i>The Journal of Physical Chemistry</i> , 1991, 95, 1484-1488.	2.9	89
113	Reduced Oxy Intermediate Observed in D251N Cytochrome P450cam. <i>Biochemistry</i> , 1997, 36, 5104-5107.	2.5	89
114	Porous Carbon Supports Prepared by Ultrasonic Spray Pyrolysis for Direct Methanol Fuel Cell Electrodes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10959-10964.	3.1	87
115	Synthesis and characterization of iron-impregnated porous carbon spheres prepared by ultrasonic spray pyrolysis. <i>Carbon</i> , 2011, 49, 587-598.	10.3	86
116	Hand-Held Reader for Colorimetric Sensor Arrays. <i>Analytical Chemistry</i> , 2015, 87, 7810-7816.	6.5	86
117	Catalytic hydrodenitrogenation of indole over molybdenum nitride and carbides with different structures. <i>Applied Catalysis A: General</i> , 1999, 184, 1-9.	4.3	85
118	Shape-Selective Ligation to Dendrimer- π -Metalloporphyrins. <i>Journal of the American Chemical Society</i> , 1999, 121, 262-263.	13.7	85
119	Effect of Solutes on Single-Bubble Sonoluminescence in Water. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8462-8465.	2.5	85
120	Effect of Noble Gases on Sonoluminescence Temperatures during Multibubble Cavitation. <i>Physical Review Letters</i> , 2000, 84, 777-780.	7.8	84
121	Differentiation among peroxide explosives with an optoelectronic nose. <i>Chemical Communications</i> , 2015, 51, 15312-15315.	4.1	84
122	Photochemistry of (5,10,15,20-tetraphenylporphyrinato)iron(III) halide complexes, Fe(TPP)(X). <i>Journal of the American Chemical Society</i> , 1987, 109, 1243-1244.	13.7	83
123	Sonochemistry and sonoluminescence in ionic liquids, molten salts, and concentrated electrolyte solutions. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3513-3517.	1.8	83
124	Dual Templating Synthesis of Mesoporous Titanium Nitride Microspheres. <i>Advanced Materials</i> , 2009, 21, 3186-3190.	21.0	83
125	Ultrasonic hammer produces hot spots in solids. <i>Nature Communications</i> , 2015, 6, 6581.	12.8	83
126	Organometallic Sonochemistry. <i>Advances in Organometallic Chemistry</i> , 1986, , 73-119.	1.0	82

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127	Cavitation Thermometry Using Molecular and Continuum Sonoluminescence. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6612-6619.	2.9	82
128	Electronic states and optical properties of porphyrins in van der Waals contact: thorium(IV) sandwich complexes. <i>Journal of the American Chemical Society</i> , 1992, 114, 6528-6538.	13.7	81
129	Sonochemical Preparation of Supported Hydrodesulfurization Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 8310-8316.	13.7	81
130	The Effects of Ultrasound on Crystals: Sonocrystallization and Sonofragmentation. <i>Crystals</i> , 2018, 8, 280.	2.2	81
131	Microporous Porphyrin and Metalloporphyrin Materials. <i>Journal of Solid State Chemistry</i> , 2000, 152, 87-98.	2.9	80
132	Shock Wave Chemistry in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 4619-4622.	13.7	80
133	The synthetic analogs of O ₂ -binding heme proteins. <i>Journal of Chemical Education</i> , 1985, 62, 974.	2.3	78
134	Evidence for a Plasma Core during Multibubble Sonoluminescence in Sulfuric Acid. <i>Journal of the American Chemical Society</i> , 2007, 129, 3838-3839.	13.7	78
135	Differential sensing of sugars by colorimetric arrays. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 758-766.	6.1	78
136	The Chemical History of a Bubble. <i>Accounts of Chemical Research</i> , 2018, 51, 2169-2178.	15.6	78
137	Sonochemistry and sonocatalysis of iron carbonyls. <i>Journal of the American Chemical Society</i> , 1981, 103, 7342-7344.	13.7	77
138	Bond breakage under pressure in a metal organic framework. <i>Chemical Science</i> , 2017, 8, 8004-8011.	7.4	77
139	A bis-pocket porphyrin. <i>Journal of the American Chemical Society</i> , 1983, 105, 3507-3510.	13.7	76
140	The Site of Sonochemical Reactions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1986, 33, 143-147.	3.0	76
141	Carbonyl Complexes of Iron(II), Ruthenium(II), and Osmium(II) 5,10,15,20-Tetraphenylporphyrinates: A Comparative Investigation by X-ray Crystallography, Solid-State NMR Spectroscopy, and Density Functional Theory. <i>Journal of the American Chemical Society</i> , 1998, 120, 11323-11334.	13.7	76
142	Plasma Line Emission during Single-Bubble Cavitation. <i>Physical Review Letters</i> , 2005, 95, 044301.	7.8	75
143	Measurement of Pressure and Density Inside a Single Sonoluminescing Bubble. <i>Physical Review Letters</i> , 2006, 96, 204301.	7.8	72
144	Nanostructured Materials Synthesis Using Ultrasound. <i>Topics in Current Chemistry</i> , 2017, 375, 12.	5.8	72

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145	Colorimetric Sensor Array for Monitoring CO and Ethylene. <i>Analytical Chemistry</i> , 2019, 91, 797-802.	6.5	72
146	Dynamics of a Sonoluminescing Bubble in Sulfuric Acid. <i>Physical Review Letters</i> , 2005, 95, 254301.	7.8	71
147	Formation and Characterization of Polyglutamate Core-Shell Microspheres. <i>Journal of the American Chemical Society</i> , 2006, 128, 6540-6541.	13.7	71
148	Seeing smells: development of an optoelectronic nose. <i>Quimica Nova</i> , 2007, 30, 677-681.	0.3	71
149	Carbon Microspheres as Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20481-20486.	3.1	71
150	A colorimetric sensor array of porous pigments. <i>Analyst</i> , 2009, 134, 2453.	3.5	69
151	Shock Wave Energy Absorption in Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 2220-2223.	13.7	69
152	Sonoluminescence from metal carbonyls. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3098-3099.	2.9	68
153	Intense Mechanoluminescence and Gas Phase Reactions from the Sonication of an Organic Slurry. <i>Journal of the American Chemical Society</i> , 2007, 129, 6718-6719.	13.7	68
154	Shock initiation of explosives: High temperature hot spots explained. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	68
155	Disease-specific protein corona sensor arrays may have disease detection capacity. <i>Nanoscale Horizons</i> , 2019, 4, 1063-1076.	8.0	68
156	Oxygen binding to iron porphyrins. <i>Journal of the American Chemical Society</i> , 1975, 97, 7185-7186.	13.7	67
157	Actinide bis(porphyrinate) .pi.-radical cations and dications, including the x-ray crystal structure of [(TPP)2Th][SbCl6]. <i>Journal of the American Chemical Society</i> , 1988, 110, 2011-2012.	13.7	67
158	A Hand-Held Optoelectronic Nose for the Identification of Liquors. <i>ACS Sensors</i> , 2018, 3, 121-127.	7.8	67
159	Fast atom bombardment mass spectroscopy (FABMS) of polyoxoanions. <i>Journal of the American Chemical Society</i> , 1984, 106, 5750-5751.	13.7	66
160	Compression-Induced Deformation of Individual Metal-Organic Framework Microcrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 1750-1753.	13.7	66
161	The Optoelectronic Nose. <i>Accounts of Chemical Research</i> , 2021, 54, 950-960.	15.6	66
162	Hydrodehalogenation with sonochemically prepared Mo2C and W2C. <i>Catalysis Today</i> , 2004, 88, 139-151.	4.4	65

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163	Photodegradation of BiNbO ₄ Powder during Photocatalytic Reactions. Journal of Physical Chemistry C, 2009, 113, 10341-10345.	3.1	64
164	Moessbauer spectra of oxidized iron porphyrins. Inorganic Chemistry, 1983, 22, 367-368.	4.0	63
165	Synthesis and characterization of actinide mono and bis porphyrin complexes. Inorganic Chemistry, 1987, 26, 343-344.	4.0	61
166	Regioselective epoxidations of dienes with manganese(III) porphyrin catalysts. Journal of the Chemical Society Chemical Communications, 1987, , 200.	2.0	60
167	Porous Carbon Spheres from Energetic Carbon Precursors using Ultrasonic Spray Pyrolysis. Advanced Materials, 2012, 24, 6028-6033.	21.0	60
168	Materials synthesis in a bubble. MRS Bulletin, 2019, 44, 382-391.	3.5	60
169	Ultrasound in Synthesis. Modern Synthetic Methods, 1986, , 1-60.	4.8	60
170	Sonochemical activation of transition metals. Journal of the American Chemical Society, 1984, 106, 6856-6858.	13.7	58
171	Emission from Electronically Excited Metal Atoms during Single-Bubble Sonoluminescence. Physical Review Letters, 2007, 99, 134301.	7.8	58
172	Putidaredoxin reduction of cytochrome P-450cam: dependence of electron transfer on the identity of putidaredoxin's C-terminal amino acid. Journal of the American Chemical Society, 1990, 112, 7396-7398.	13.7	57
173	Quantum Dots from Chemical Aerosol Flow Synthesis: Preparation, Characterization, and Cellular Imaging. Chemistry of Materials, 2008, 20, 4033-4038.	6.7	57
174	The enhancement of intercalation reactions by ultrasound. Journal of the Chemical Society Chemical Communications, 1987, , 900.	2.0	56
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