Kenneth S Suslick

List of Publications by Citations

332 papers	38,028 citations	98 h-index	188 g-index
363 ext. papers	40,921 ext. citations	11.2 avg, IF	7.78 L-index

#	Paper	IF	Citations
332	Sonochemistry. *Science*, **1990**, 247, 1439-45	33.3	2251
331	Applications of ultrasound to the synthesis of nanostructured materials. *Advanced Materials*, **2010**, 22, 1039-59	24	1298
330	APPLICATIONS OF ULTRASOUND TO MATERIALS CHEMISTRY. *Annual Review of Materials Research*, **1999**, 29, 295-326		1285
329	A colorimetric sensor array for odour visualization. *Nature*, **2000**, 406, 710-3	50.4	1163
328	Sonochemical synthesis of amorphous iron. *Nature*, **1991**, 353, 414-416	50.4	1037
327	Sonochemical hot spot. *Journal of the American Chemical Society*, **1986**, 108, 5641-5642	16.4	978
326	The temperature of cavitation. *Science*, **1991**, 253, 1397-9	33.3	873
325	Sonochemical synthesis of nanomaterials. *Chemical Society Reviews*, **2013**, 42, 2555-67	58.5	711
324	The Chemical Effects of Ultrasound. *Scientific American*, **1989**, 260, 80-86	0.5	630
323	Optical sensor arrays for chemical sensing: the optoelectronic nose. *Chemical Society Reviews*, **2013**, 42, 8649-82	58.5	595
322	Acoustic cavitation and its chemical consequences. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1999**, 357, 335-353	3	517
321	Sonochemical Synthesis of Iron Colloids. *Journal of the American Chemical Society*, **1996**, 118, 11960-11961	16.4	493
320	Interparticle collisions driven by ultrasound. *Science*, **1990**, 247, 1067-9	33.3	482
319	One-dimensional coordination polymers: Applications to material science. *Coordination Chemistry Reviews*, **1993**, 128, 293-322	23.2	465
318	Microporous porphyrin solids. *Accounts of Chemical Research*, **2005**, 38, 283-91	24.3	454
317	Plasma formation and temperature measurement during single-bubble cavitation. *Nature*, **2005**, 434, 52-5	50.4	445
316	Inside a collapsing bubble: sonoluminescence and the conditions during cavitation. *Annual Review of Physical Chemistry*, **2008**, 59, 659-83	15.7	439

315	A functional zeolite analogue assembled from metalloporphyrins. *Nature Materials*, **2002**, 1, 118-21	27	412
314	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. *Chemical Reviews*, **2019**, 119, 231-292	68.1	404
313	Colorimetric sensor arrays for volatile organic compounds. *Analytical Chemistry*, **2006**, 78, 3591-600	7.8	397
312	Sonoluminescence temperatures during multi-bubble cavitation. *Nature*, **1999**, 401, 772-775	50.4	397
311	An optoelectronic nose for the detection of toxic gases. *Nature Chemistry*, **2009**, 1, 562-7	17.6	363
310	Synthetic hosts by monomolecular imprinting inside dendrimers. *Nature*, **2002**, 418, 399-403	50.4	345
309	Dendrimer-Metalloporphyrins: Synthesis and Catalysis. *Journal of the American Chemical Society*, **1996**, 118, 5708-5711	16.4	344
308	Sonochemical preparation of hollow nanospheres and hollow nanocrystals. *Journal of the American Chemical Society*, **2005**, 127, 2368-9	16.4	334
307	Sonochemical synthesis of highly fluorescent ag nanoclusters. *ACS Nano*, **2010**, 4, 3209-14	16.7	323
306	Nanotechnology, nanotoxicology, and neuroscience. *Progress in Neurobiology*, **2009**, 87, 133-70	10.9	313
305	Nature of O2 and CO binding to metalloporphyrins and heme proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **1976**, 73, 3333-7	11.5	305
304	On the origin of sonoluminescence and sonochemistry. *Ultrasonics*, **1990**, 28, 280-90	3.5	298
303	The energy efficiency of formation of photons, radicals and ions during single-bubble cavitation. *Nature*, **2002**, 418, 394-7	50.4	290
302	Sonochemical Synthesis of Nanostructured Molybdenum Sulfide. *Journal of the American Chemical Society*, **1998**, 120, 6189-6190	16.4	267
301	A colorimetric sensor array for organics in water. *Journal of the American Chemical Society*, **2005**, 127, 11548-9	16.4	263
300	Nanostructured Materials Generated by High-Intensity Ultrasound:Sonochemical Synthesis and Catalytic Studies. *Chemistry of Materials*, **1996**, 8, 2172-2179	9.6	251
299	Colorimetric sensor arrays for molecular recognition. *Tetrahedron*, **2004**, 60, 11133-11138	2.4	250
298	Hot Spot Conditions during Cavitation in Water. *Journal of the American Chemical Society*, **1999**, 121, 5817-5818	16.4	246

297	Molecular recognition and discrimination of amines with a colorimetric array. *Angewandte Chemie - International Edition*, **2005**, 44, 4528-32	16.4	243
296	Shape-selective alkane hydroxylation by metalloporphyrin catalysts. *Journal of the American Chemical Society*, **1986**, 108, 7281-7286	16.4	243
295	Protein microencapsulation of nonaqueous liquids. *Journal of the American Chemical Society*, **1990**, 112, 7807-7809	16.4	240
294	Nanostructured Molybdenum Carbide: Sonochemical Synthesis and Catalytic Properties. *Journal of the American Chemical Society*, **1996**, 118, 5492-5493	16.4	229
293	Sonochemical synthesis of nanosized hollow hematite. *Journal of the American Chemical Society*, **2007**, 129, 2242-3	16.4	222
292	A colorimetric sensor array for detection of triacetone triperoxide vapor. *Journal of the American Chemical Society*, **2010**, 132, 15519-21	16.4	214
291	Porous MoS2 synthesized by ultrasonic spray pyrolysis. *Journal of the American Chemical Society*, **2005**, 127, 9990-1	16.4	211
290	Models for the active site of oxygen-binding hemoproteins. Dioxygen binding properties and the structures of (2-methylimidazole)-meso-tetra(.alpha.,.alpha.,.alpha.,.alpha.-o-pivalamidophenyl)porphyrinatoiron(II)-ethanol and its dioxygen adduct. *Journal of the American Chemical Society*, **1980**, 102, 3224-3237	16.4	211
289	A simple and highly sensitive colorimetric detection method for gaseous formaldehyde. *Journal of the American Chemical Society*, **2010**, 132, 4046-7	16.4	209
288	Colorimetric sensor array for soft drink analysis. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 237-42	5.7	202
287	Preoxidation for colorimetric sensor array detection of VOCs. *Journal of the American Chemical Society*, **2011**, 133, 16786-9	16.4	199
286	Discrimination of complex mixtures by a colorimetric sensor array: coffee aromas. *Analytical Chemistry*, **2010**, 82, 2067-73	7.8	197
285	Rapid identification of bacteria with a disposable colorimetric sensing array. *Journal of the American Chemical Society*, **2011**, 133, 7571-6	16.4	196
284	BiVO4 as a Visible-Light Photocatalyst Prepared by Ultrasonic Spray Pyrolysis. *Journal of Physical Chemistry C*, **2009**, 113, 11980-11983	3.8	191
283	Engineered microsphere contrast agents for optical coherence tomography. *Optics Letters*, **2003**, 28, 1546-8	3	187
282	Air-filled proteinaceous microbubbles: synthesis of an echo-contrast agent. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 7708-10	11.5	187
281	A colorimetric sensor array for identification of toxic gases below permissible exposure limits. *Chemical Communications*, **2010**, 46, 2037-9	5.8	179
280	Colorimetric sensor arrays for the analysis of beers: a feasibility study. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 4925-31	5.7	177

279	Colorimetric sensor array for determination and identification of toxic industrial chemicals. *Analytical Chemistry*, **2010**, 82, 9433-40	7.8	176
278	Chemistry Induced by Hydrodynamic Cavitation. *Journal of the American Chemical Society*, **1997**, 119, 9303-9304	16.4	171
277	Push-pull porphyrins as nonlinear optical materials. *Journal of the American Chemical Society*, **1992**, 114, 6928-6930	16.4	165
276	Comparison of multibubble and single-bubble sonoluminescence spectra. *Physical Review Letters*, **1995**, 75, 2602-2605	7.4	164
275	Exhaled breath analysis with a colorimetric sensor array for the identification and characterization of lung cancer. *Journal of Thoracic Oncology*, **2012**, 7, 137-42	8.9	163
274	Alkane sonochemistry. *The Journal of Physical Chemistry*, **1983**, 87, 2299-2301		163
273	Oxygen binding to cobalt porphyrins. *Journal of the American Chemical Society*, **1978**, 100, 2761-2766	16.4	162
272	Magnetic and porous nanospheres from ultrasonic spray pyrolysis. *Journal of the American Chemical Society*, **2005**, 127, 12007-10	16.4	161
271	High velocity interparticle collisions driven by ultrasound. *Journal of the American Chemical Society*, **2004**, 126, 13890-1	16.4	161
270	The materials chemistry of porphyrins and metalloporphyrins **2000**, 04, 407-413		155
269	Sonocrystallization and sonofragmentation. *Ultrasonics Sonochemistry*, **2014**, 21, 1908-15	8.9	152
268	Variation of protein corona composition of gold nanoparticles following plasmonic heating. *Nano Letters*, **2014**, 14, 6-12	11.5	151
267	Hydrogen-Bonded Porphyrinic Solids: Supramolecular Networks of Octahydroxy Porphyrins. *Journal of the American Chemical Society*, **1997**, 119, 8492-8502	16.4	151
266	Porous, Hollow, and Ball-in-Ball Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity. *Advanced Materials*, **2006**, 18, 1832-1837	24	150
265	Molecular emission from single-bubble sonoluminescence. *Nature*, **2000**, 407, 877-9	50.4	144
264	Sonochemical preparation of functionalized graphenes. *Journal of the American Chemical Society*, **2011**, 133, 9148-51	16.4	137
263	Mechanoluminescence: light from sonication of crystal slurries. *Nature*, **2006**, 444, 163	50.4	137
262	Magnetic properties of amorphous iron. *Physical Review B*, **1993**, 48, 269-273	3.3	135

261	Nanostructured ZnS:Ni2+ Photocatalysts Prepared by Ultrasonic Spray Pyrolysis. *Advanced Materials*, **2008**, 20, 2599-2603	24	133
260	Porous carbon powders prepared by ultrasonic spray pyrolysis. *Journal of the American Chemical Society*, **2006**, 128, 12642-3	16.4	132
259	Molecular imprinting inside dendrimers. *Journal of the American Chemical Society*, **2003**, 125, 13504-18	16.4	129
258	Magnetomotive contrast for in vivo optical coherence tomography. *Optics Express*, **2005**, 13, 6597-614	3.3	128
257	Heterogeneous sonocatalysis with nickel powder. *Journal of the American Chemical Society*, **1987**, 109, 3459-3461	16.4	126
256	Colorimetric detection and identification of natural and artificial sweeteners. *Analytical Chemistry*, **2009**, 81, 6526-33	7.8	124
255	Sonochemistry and sonoluminescence of room-temperature ionic liquids. *Journal of the American Chemical Society*, **2003**, 125, 11138-9	16.4	120
254	A robust microporous zinc porphyrin framework solid. *Inorganic Chemistry*, **2003**, 42, 7719-21	5.1	119
253	Sonofragmentation of molecular crystals. *Journal of the American Chemical Society*, **2011**, 133, 14530-3	16.4	117
252	An optoelectronic nose: "seeing" smells by means of colorimetric sensor arrays. *MRS Bulletin*, **2004**, 29, 720-5	3.2	117
251	Applications of Ultrasound to Materials Chemistry. *MRS Bulletin*, **1995**, 20, 29-34	3.2	117
250	Effects of high intensity ultrasound on inorganic solids. *Ultrasonics*, **1987**, 25, 56-9	3.5	117
249	Sonochemistry and sonocatalysis of metal carbonyls. *Journal of the American Chemical Society*, **1983** , 105, 5781-5785	16.4	115
248	Is the olfactory receptor a metalloprotein?. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3035-9	11.5	114
247	Extreme conditions during multibubble cavitation: Sonoluminescence as a spectroscopic probe. *Ultrasonics Sonochemistry*, **2011**, 18, 842-6	8.9	112
246	Chemical aerosol flow synthesis of semiconductor nanoparticles. *Journal of the American Chemical Society*, **2005**, 127, 12196-7	16.4	109
245	An optoelectronic nose for identification of explosives. *Chemical Science*, **2016**, 7, 199-206	9.4	108
244	Tumor targeting by surface-modified protein microspheres. *Journal of the American Chemical Society*, **2006**, 128, 3472-3	16.4	106

243	A colorimetric sensor array for detection and identification of sugars. *Organic Letters*, **2008**, 10, 4405-8	6.2	103
242	Shape selective epoxidation of alkenes by metalloporphyrin-dendrimers. *Journal of Molecular Catalysis A*, **1996**, 113, 109-116		101
241	Sonochemical synthesis of nanostructured catalysts. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1995**, 204, 186-192	5.3	101
240	Sonochemistry in non-aqueous liquids. *Ultrasonics*, **1984**, 22, 33-36	3.5	101
239	Photochemical reduction of nitrate and nitrite by manganese and iron porphyrins. *Inorganic Chemistry*, **1991**, 30, 912-919	5.1	100
238	Langmuir-Blodgett Films of Amphiphilic Push-Pull Porphyrins. *The Journal of Physical Chemistry*, **1994**, 98, 383-385		99
237	Sonoluminescence from nonaqueous liquids: emission from small molecules. *Journal of the American Chemical Society*, **1989**, 111, 6987-6992	16.4	99
236	Characterization of sonochemically prepared proteinaceous microspheres. *Ultrasonics Sonochemistry*, **1994**, 1, S65-S68	8.9	98
235	Sonoluminescence from non-aqueous liquids. *Nature*, **1987**, 330, 553-5	50.4	91
234	Portable Optoelectronic Nose for Monitoring Meat Freshness. *ACS Sensors*, **2016**, 1, 1330-1335	9.2	90
233	A perspective on four new porphyrin-based functional materials and devices. *Journal of Porphyrins and Phthalocyanines*, **2002**, 06, 243-258	1.8	90
232	Effect of cavitation conditions on amorphous metal synthesis. *Ultrasonics*, **1992**, 30, 168-172	3.5	90
231	Temperature of Multibubble Sonoluminescence in Water. *Journal of Physical Chemistry A*, **1999**, 103, 10783-10788	2.8	88
230	Chemically responsive nanoporous pigments: colorimetric sensor arrays and the identification of aliphatic amines. *Langmuir*, **2008**, 24, 13168-72	4	86
229	Structural changes upon oxygenation of an iron(II)(porphyrinato)(imidazole) complex. *Journal of the American Chemical Society*, **1978**, 100, 6769-6770	16.4	86
228	The sonochemistry of zinc powder. *Journal of the American Chemical Society*, **1989**, 111, 2342-2344	16.4	85
227	Spatial separation of cavitating bubble populations: the nanodroplet injection model. *Journal of the American Chemical Society*, **2009**, 131, 6060-1	16.4	84
226	Porous Carbon Supports Prepared by Ultrasonic Spray Pyrolysis for Direct Methanol Fuel Cell Electrodes. *Journal of Physical Chemistry C*, **2007**, 111, 10959-10964	3.8	84

225	Reduced oxy intermediate observed in D251N cytochrome P450cam. *Biochemistry*, **1997**, 36, 5104-7	3.2	83
224	Dual Templating Synthesis of Mesoporous Titanium Nitride Microspheres. *Advanced Materials*, **2009**, 21, 3186-3190	24	79
223	Inertially confined plasma in an imploding bubble. *Nature Physics*, **2010**, 6, 598-601	16.2	78
222	Synthesis and characterization of iron-impregnated porous carbon spheres prepared by ultrasonic spray pyrolysis. *Carbon*, **2011**, 49, 587-598	10.4	78
221	Effect of Solutes on Single-Bubble Sonoluminescence in Water. *Journal of Physical Chemistry A*, **2000**, 104, 8462-8465	2.8	78
220	Pressure during Sonoluminescence *Journal of Physical Chemistry B*, **2003**, 107, 7303-7306	3.4	77
219	Effect of noble gases on sonoluminescence temperatures during multibubble cavitation. *Physical Review Letters*, **2000**, 84, 777-80	7.4	77
218	Catalytic hydrodenitrogenation of indole over molybdenum nitride and carbides with different structures. *Applied Catalysis A: General*, **1999**, 184, 1-9	5.1	77
217	Shape-Selective Ligation to Dendrimeric Metalloporphyrins. *Journal of the American Chemical Society*, **1999**, 121, 262-263	16.4	77
216	Organometallic Sonochemistry. *Advances in Organometallic Chemistry*, **1986**, 73-119	3.8	77
215	Sonoluminescence from alkali-metal salt solutions. *The Journal of Physical Chemistry*, **1991**, 95, 1484-1488		76
214	Differential sensing of sugars by colorimetric arrays. *Current Opinion in Chemical Biology*, **2010**, 14, 758-66	9.7	75
213	Cavitation Thermometry Using Molecular and Continuum Sonoluminescence. *The Journal of Physical Chemistry*, **1996**, 100, 6612-6619		75
212	Sonochemistry and sonoluminescence in ionic liquids, molten salts, and concentrated electrolyte solutions. *Journal of Organometallic Chemistry*, **2005**, 690, 3513-3517	2.3	74
211	Sonochemical preparation of supported hydrodesulfurization catalysts. *Journal of the American Chemical Society*, **2001**, 123, 8310-6	16.4	74
210	Electronic states and optical properties of porphyrins in van der Waals contact: thorium(IV) sandwich complexes. *Journal of the American Chemical Society*, **1992**, 114, 6528-6538	16.4	74
209	Microporous Porphyrin and Metalloporphyrin Materials. *Journal of Solid State Chemistry*, **2000**, 152, 87-98	3.3	73
208	Colorimetric Recognition of Aldehydes and Ketones. *Angewandte Chemie - International Edition*, **2017**, 56, 9860-9863	16.4	72

207	The site of sonochemical reactions. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **1986**, 33, 143-7	3.2	72
206	Mechanochemistry and sonochemistry: concluding remarks. *Faraday Discussions*, **2014**, 170, 411-22	3.6	71
205	Evidence for a plasma core during multibubble sonoluminescence in sulfuric acid. *Journal of the American Chemical Society*, **2007**, 129, 3838-9	16.4	71
204	Plasma line emission during single-bubble cavitation. *Physical Review Letters*, **2005**, 95, 044301	7.4	71
203	Hand-Held Reader for Colorimetric Sensor Arrays. *Analytical Chemistry*, **2015**, 87, 7810-6	7.8	70
202	The synthetic analogs of O2-binding heme proteins. *Journal of Chemical Education*, **1985**, 62, 974	2.4	69
201	Differentiation among peroxide explosives with an optoelectronic nose. *Chemical Communications*, **2015**, 51, 15312-5	5.8	68
200	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. *Journal of the American Chemical Society*, **1998**, 120, 11323-11334	16.4	68
199	Photochemistry of (5,10,15,20-tetraphenylporphyrinato)iron(III) halide complexes, Fe(TPP)(X). *Journal of the American Chemical Society*, **1987**, 109, 1243-1244	16.4	67
198	Formation and characterization of polyglutamate core-shell microspheres. *Journal of the American Chemical Society*, **2006**, 128, 6540-1	16.4	66
197	Ultrasonic hammer produces hot spots in solids. *Nature Communications*, **2015**, 6, 6581	17.4	65
196	Sonochemistry and sonocatalysis of iron carbonyls. *Journal of the American Chemical Society*, **1981**, 103, 7342-7344	16.4	65
195	Carbon Microspheres as Supercapacitors. *Journal of Physical Chemistry C*, **2011**, 115, 20481-20486	3.8	64
194	Intense mechanoluminescence and gas phase reactions from the sonication of an organic slurry. *Journal of the American Chemical Society*, **2007**, 129, 6718-9	16.4	64
193	Dynamics of a sonoluminescing bubble in sulfuric acid. *Physical Review Letters*, **2005**, 95, 254301	7.4	63
192	A colorimetric sensor array of porous pigments. *Analyst, The*, **2009**, 134, 2453-7	5	62
191	Seeing smells: development of an optoelectronic nose. *Quimica Nova*, **2007**, 30, 677-681	1.6	62
190	Hydrodehalogenation with sonochemically prepared Mo2C and W2C. *Catalysis Today*, **2004**, 88, 139-151	5.3	61

189	Actinide bis(porphyrinate) .pi.-radical cations and dications, including the x-ray crystal structure of [(TPP)2Th][SbCl6]. *Journal of the American Chemical Society*, **1988**, 110, 2011-2012	16.4	61
188	A bis-pocket porphyrin. *Journal of the American Chemical Society*, **1983**, 105, 3507-3510	16.4	61
187	Photodegradation of BiNbO4 Powder during Photocatalytic Reactions. *Journal of Physical Chemistry C*, **2009**, 113, 10341-10345	3.8	59
186	Moessbauer spectra of oxidized iron porphyrins. *Inorganic Chemistry*, **1983**, 22, 367-368	5.1	59
185	Fast atom bombardment mass spectroscopy (FABMS) of polyoxoanions. *Journal of the American Chemical Society*, **1984**, 106, 5750-5751	16.4	59
184	Measurement of pressure and density inside a single sonoluminescing bubble. *Physical Review Letters*, **2006**, 96, 204301	7.4	57
183	Sonoluminescence from metal carbonyls. *The Journal of Physical Chemistry*, **1993**, 97, 3098-3099		57
182	Letter: Oxygen binding to iron porphyrins. *Journal of the American Chemical Society*, **1975**, 97, 7185-6	16.4	57
181	The Chemical History of a Bubble. *Accounts of Chemical Research*, **2018**, 51, 2169-2178	24.3	56
180	Regioselective epoxidations of dienes with manganese(III) porphyrin catalysts. *Journal of the Chemical Society Chemical Communications*, **1987**, 200		55
179	Synthesis and characterization of actinide mono and bis porphyrin complexes. *Inorganic Chemistry*, **1987**, 26, 343-344	5.1	55
178	Nanostructured Materials Synthesis Using Ultrasound. *Topics in Current Chemistry*, **2017**, 375, 12	7.2	54
177	The Effects of Ultrasound on Crystals: Sonocrystallization and Sonofragmentation. *Crystals*, **2018**, 8, 280	2.3	53
176	Compression-induced deformation of individual metal-organic framework microcrystals. *Journal of the American Chemical Society*, **2015**, 137, 1750-3	16.4	53
175	Putidaredoxin reduction of cytochrome P-450cam: dependence of electron transfer on the identity of putidaredoxin C-terminal amino acid. *Journal of the American Chemical Society*, **1990**, 112, 7396-7398	16.4	53
174	Bond breakage under pressure in a metal organic framework. *Chemical Science*, **2017**, 8, 8004-8011	9.4	52
173	Porous carbon spheres from energetic carbon precursors using ultrasonic spray pyrolysis. *Advanced Materials*, **2012**, 24, 6028-33	24	52
172	Quantum Dots from Chemical Aerosol Flow Synthesis: Preparation, Characterization, and Cellular Imaging. *Chemistry of Materials*, **2008**, 20, 4033-4038	9.6	52

171	Synthetic Heme□Peptide Complexes. *Journal of the American Chemical Society*, **1998**, 120, 6183-6184	16.4	51
170	Mössbauer-effect and x-ray-absorption spectral study of sonochemically prepared amorphous iron. *Physical Review B*, **1998**, 57, 10716-10722	3.3	51
169	The enhancement of intercalation reactions by ultrasound. *Journal of the Chemical Society Chemical Communications*, **1987**, 900		51
168	Ultrasound in Synthesis. *Modern Synthetic Methods*, **1986**, 1-60		51
167	Identification of Nanoparticles with a Colorimetric Sensor Array. *ACS Sensors*, **2016**, 1, 17-21	9.2	50
166	Emission from electronically excited metal atoms during single-bubble Sonoluminescence. *Physical Review Letters*, **2007**, 99, 134301	7.4	50
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164	Sonochemical activation of transition metals. *Journal of the American Chemical Society*, **1984**, 106, 6856-6858	16.4	50
163	Shock Wave Chemistry in a Metal-Organic Framework. *Journal of the American Chemical Society*, **2017**, 139, 4619-4622	16.4	48
162	Sonochemically produced fluorocarbon microspheres: a new class of magnetic resonance imaging agent. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 675-83	5.6	48
161	Observation of a new low-energy fluorescent 1(.pi.,.pi.*) excited state in strongly coupled porphyrin dimers. *Journal of the American Chemical Society*, **1990**, 112, 4075-4077	16.4	48
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159	Colorimetric Sensor Array for Monitoring CO and Ethylene. *Analytical Chemistry*, **2019**, 91, 797-802	7.8	48
158	A Hand-Held Optoelectronic Nose for the Identification of Liquors. *ACS Sensors*, **2018**, 3, 121-127	9.2	48
157	Identification of pathogenic fungi with an optoelectronic nose. *Analyst, The*, **2014**, 139, 1922-8	5	47
156	Molecular Recognition and Discrimination of Amines with a Colorimetric Array. *Angewandte Chemie* , **2005**, 117, 4604-4608	3.6	47
155	Sonochemical Preparation of a Nanostructured Bifunctional Catalyst. *Journal of the American Chemical Society*, **2000**, 122, 5214-5215	16.4	46
154	Neutron diffraction on amorphous iron powder. *Physical Review B*, **1993**, 48, 15797-15800	3.3	46

153	Low-spin five-coordinate ferric porphyrin complex: [5, 10, 15, 20-tetrakis(4-methoxyphenyl)porphyrinato](hydrosulfido)iron(III). *Journal of the American Chemical Society*, **1984**, 106, 7258-7259	16.4	46
152	Colorimetric sensor arrays: Interplay of geometry, substrate and immobilization. *Sensors and Actuators B: Chemical*, **2014**, 197, 116-122	8.5	45
151	Shock initiation of explosives: High temperature hot spots explained. *Applied Physics Letters*, **2017**, 111, 061902	3.4	45
150	Gold nanoparticles encapsulated in porous carbon. *Chemical Communications*, **2012**, 48, 11094-6	5.8	45
149	Nanostructured Carbons Prepared by Ultrasonic Spray Pyrolysis. *Chemistry of Materials*, **2010**, 22, 1610-1612	9.6	45
148	De novo designed cyclic-peptide heme complexes. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13140-5	11.5	45
147	A four-coordinate Fe(III) porphyrin cation. *Journal of the American Chemical Society*, **2008**, 130, 1134-5	16.4	44
146	Shape-Selective Discrimination of Small Organic Molecules. *Journal of the American Chemical Society*, **2000**, 122, 11565-11566	16.4	43
145	Influences on carbon monoxide and dioxygen binding to iron(II) porphyrins. *Journal of the American Chemical Society*, **1984**, 106, 4522-4525	16.4	43
144	Energy Storage during Compression of Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2017**, 139, 4667-4670	16.4	42
143	Targeted multifunctional multimodal protein-shell microspheres as cancer imaging contrast agents. *Molecular Imaging and Biology*, **2012**, 14, 17-24	3.8	42
142	Porous TiO2 microspheres with tunable properties for photocatalytic air purification. *Ultrasonics Sonochemistry*, **2013**, 20, 445-51	8.9	42
141	Mechanical activation of CaO-based adsorbents for CO(2) capture. *ChemSusChem*, **2013**, 6, 193-8	8.3	42
140	Tuning the Vibrational Relaxation of CO Bound to Heme and Metalloporphyrin Complexes. *The Journal of Physical Chemistry*, **1996**, 100, 18023-18032		42
139	Rapid Quantification of Trimethylamine. *Analytical Chemistry*, **2016**, 88, 5615-20	7.8	42
138	Disease-specific protein corona sensor arrays may have disease detection capacity. *Nanoscale Horizons*, **2019**, 4, 1063-1076	10.8	41
137	Effect of reaction conditions on size and morphology of ultrasonically prepared Ni(OH)(2) powders. *Ultrasonics Sonochemistry*, **2011**, 18, 901-6	8.9	41
136	Discotic Liquid Crystals from a Bis-Pocketed Porphyrin. *Journal of the American Chemical Society*, **1998**, 120, 11802-11803	16.4	41

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