Christopher Michael Sorensen

List of Publications by Year
in descending order

199 papers	9,861 citations	44444 50 h-index	46524 93 g-index

201 all docs	201 docs citations	201 times ranked	10202 citing authors

#	Article	IF	Citations
1	Additive manufacturing of continuous carbon fiber reinforced epoxy composite with graphene enhanced interlayer bond toward <scp>ultraâ€high</scp> mechanical properties. Polymer Composites, 2022, 43, 934-945.	2.3	25
2	Synthesis of turbostratic nanoscale graphene via chamber detonation of oxygen/acetylene mixtures. Nano Select, 2022, 3, 1054-1068.	1.9	10
3	Ultrafast Transient Absorption Spectroscopy of Inkjet-Printed Graphene and Aerosol Gel Graphene Films: Effect of Oxygen and Morphology on Carrier Relaxation Dynamics. Journal of Physical Chemistry C, 2022, 126, 7949-7955.	1.5	1
4	Black carbon aerosol number and mass concentration measurements by picosecond short-range elastic backscatter lidar. Scientific Reports, 2022, 12, 8443.	1.6	7
5	Determination of size and complex index of refraction of single particles with elastic light scattering. Applied Optics, 2021, 60, 600.	0.9	2
6	Graphene Aerosol Gel Ink for Printing Micro-Supercapacitors. ACS Applied Energy Materials, 2021, 4, 7632-7641.	2.5	19
7	A wide range (0.32^{Â°}â€“177.6^{Â°}), multi-angle light scattering setup and concomitant analysis method. Review of Scientific Instruments, 2021, 92, 113105.	0.6	2
8	A light-scattering study of highly refractive, irregularly shaped MoS2 particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106757.	1.1	2
9	Light scattering study of highly absorptive, non-fractal, hematite aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106919.	1.1	5
10	Radiative properties of soot fractal superaggregates including backscattering and depolarization. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106940.	1.1	12
11	Light scattering studies of the sol-to-gel transition in particulate systems. Journal of Colloid and Interface Science, 2019, 556, 577-583.	5.0	6
12	Spherical particle absorption over a broad range of imaginary refractive index. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 226, 81-86.	1.1	22
13	Grand challenges for aerosol science and technology. Aerosol Science and Technology, 2019, 53, 731-734.	1.5	16
14	Kinetics of sol-to-gel transition in irreversible particulate systems. Journal of Colloid and Interface Science, 2019, 550, 57-63.	5.0	13
15	A refractive-index and position-independent single-particle detector for large, nonabsorbing, spherical particles. Aerosol Science and Technology, 2018, 52, 1429-1436.	1.5	1
16	Synthesis and Characterization of Multifunctional Branched Amphiphilic Peptide Bilayer Conjugated Gold Nanoparticles. ACS Omega, 2018, 3, 11071-11083.	1.6	21
17	Light scattering and absorption by fractal aggregates including soot. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 459-473.	1.1	53
18	Rayleigh scattering and the internal coupling parameter for arbitrary particle shapes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 339-343.	1.1	4

#	Article	IF	Citations
19	Q-Space Analysis of the Light Scattering Phase Function of Particles with Any Shape. Atmosphere, 2017, 8, 68.	1.0	14
20	The partial light scattering cross section of spherical particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 681.	0.8	3
21	A light-scattering study of Al2O3 abrasives of various grit sizes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 180, 84-91.	1.1	6
22	Q-space analysis of light scattering by ice crystals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 185, 86-94.	1.1	8
23	Light scattering Qâ€space analysis of irregularly shaped particles. Journal of Geophysical Research D: Atmospheres, 2016, 121, 682-691.	1.2	17
24	Q-space analysis of light scattering by Gaussian Random Spheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 174, 14-21.	1.1	5
25	A light-scattering study of the scattering matrix elements of Arizona Road Dust. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 163, 72-79.	1.1	27
26	A new parameter to describe light scattering by an arbitrary sphere. Optics Communications, 2015, 356, 612-615.	1.0	13
27	Effect of the imaginary part of the refractive index on light scattering by spheres. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1231.	0.8	18
28	The Effects of Monomer Size Distribution on the Radiative Properties of Black Carbon Aggregates. Aerosol Science and Technology, 2015, 49, 928-940.	1.5	42
29	Crossover from spherical particle Mie scattering to circular aperture diffraction. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2362.	0.8	19
30	Trapping and aerogelation of nanoparticles in negative gravity hydrocarbon flames. Applied Physics Letters, 2014, 104, 243103.	1.5	17
31	Role of solvents in the gelation process: can light scattering studies shed some light?. Journal of Sol-Gel Science and Technology, 2013, 66, 43-49.	1.1	1
32	Q-space analysis of scattering by particles: A review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 131, 3-12.	1.1	36
33	Alkyl and Aromatic Amines as Digestive Ripening/Size Focusing Agents for Gold Nanoparticles. Nanomaterials, 2013, 3, 370-392.	1.9	8
34	Light Scattering Shape Diagnostics for Nano-Agglomerates. Aerosol Science and Technology, 2013, 47, 520-529.	1.5	8
35	Q-space analysis of scattering by dusts. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 115, 93-95.	1.1	12
36	MgOâ€“TiO‹sub›2‹/sub›mixed oxide nanoparticles: Comparison of flame synthesis versus aerogel method; characterization, and photocatalytic activities. Journal of Materials Research, 2013, 28, 431-439.	1.2	22

#	Article	IF	Citations
37	One-step synthesis of graphene via catalyst-free gas-phase hydrocarbon detonation. Nanotechnology, 2013, 24, 245602.	1.3	50
38	Ethanol shock and lysozyme aggregation. Soft Matter, 2013, 9, 2187.	1.2	18
39	Internal fields of soot fractal aggregates. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1947.	0.8	18
40	Au-TiO₂Nanocomposites and Efficient Photocatalytic Hydrogen Production under UV-Visible and Visible Light Illuminations: A Comparison of Different Crystalline Forms of TiO₂. International Journal of Photoenergy, 2013, 2013, 1-10.	1.4	28
41	Synthesis of CdSe/ZnS and CdTe/ZnS Quantum Dots: Refined Digestive Ripening. Journal of Nanomaterials, 2012, 2012, 1-12.	1.5	26
42	Synthesis of Silica Aerosol Gels via Controlled Detonation. Aerosol Science and Technology, 2012, 46, 596-600.	1.5	7
43	Nucleation in Short-Range Attractive Colloids: Ordering and Symmetry of Clusters. Langmuir, 2012, 28, 16015-16021.	1.6	13
44	Shear History Independence in Colloidal Aggregation. Langmuir, 2012, 28, 11337-11342.	1.6	10
45	Computer Simulations of Nucleation of Nanoparticle Superclusters from Solution. Langmuir, 2012, 28, 5570-5579.	1.6	15
46	Mass-mobility characterization of flame-made ZrO2 aerosols: Primary particle diameter and extent of aggregation. Journal of Colloid and Interface Science, 2012, 387, 12-23.	5.0	69
47	Transformation of Indium Nanoparticles to Î²-Indium Sulfide: Digestive Ripening and Visible Light-Induced Photocatalytic Properties. Langmuir, 2012, 28, 3569-3575.	1.6	43
48	Observation of Nanoparticle-Enhanced Marangoni Transport near a Freezing Out Front. Journal of Physical Chemistry C, 2012, 116, 6052-6057.	1.5	1
49	Size Focusing of Nanoparticles by Thermodynamic Control through Ligand Interactions. Molecular Clusters Compared with Nanoparticles of Metals. Journal of Physical Chemistry Letters, 2012, 3, 885-890.	2.1	45
50	Solubility of gold nanoparticles as a function of ligand shell and alkane solvent. Physical Chemistry Chemical Physics, 2012, 14, 6509.	1.3	21
51	Loss of Hydrogen upon Exposure of Thiol to Gold Clusters at Low Temperature. Journal of the American Chemical Society, 2012, 134, 9376-9379.	6.6	45
52	A three parameter description of the structure of diffusion limited cluster fractal aggregates. Journal of Colloid and Interface Science, 2012, 375, 65-69.	5.0	59
53	Discrete dipole approximation for low-energy photoelectron emission from NaCl nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 259-265.	1.1	16
54	Studio optics: Adapting interactive engagement pedagogy to upper-division physics. American Journal of Physics, 2011, 79, 320-325.	0.3	10

#	Article	IF	Citations
55	Kinetics of Nanochain Formation in a Simplified Model of Amelogenin Biomacromolecules. Biophysical Journal, 2011, 101, 2502-2506.	0.2	9
56	Synthesis of Indium Nanoparticles: Digestive Ripening under Mild Conditions. Inorganic Chemistry, 2011, 50, 5000-5005.	1.9	53
57	The sol to gel transition in irreversible particulate systems. Soft Matter, 2011, 7, 2284-2296.	1.2	50
58	A new explanation of the extinction paradox. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1170-1181.	1.1	41
59	Formation of Light-weight Low-density Materials via Gas Phase Aerosol Gelation. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	1
60	The Mobility of Fractal Aggregates: A Review. Aerosol Science and Technology, 2011, 45, 765-779.	1.5	276
61	Synthesis of CuO Nanorods, Reduction of CuO into Cu Nanorods, and Diffuse Reflectance Measurements of CuO and Cu Nanomaterials in the Near Infrared Region. Journal of Physical Chemistry C, 2010, 114, 14368-14376.	1.5	121
62	Explanation of the patterns in Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 782-794.	1.1	30
63	Computer Simulation of Aggregation with Consecutive Coalescence and Non-Coalescence Stages in Aerosols. Aerosol Science and Technology, 2010, 44, 380-387.	1.5	8
64	Does Shape Anisotropy Control the Fractal Dimension in Diffusion-Limited Cluster-Cluster Aggregation?. Aerosol Science and Technology, 2010, 44, i-iv.	1.5	81
65	Light Scattering as a Probe of Nanoparticle Aerosols. Particulate Science and Technology, 2010, 28, 442-457.	1.1	3
66	Nucleation of Gold Nanoparticle Superclusters from Solution. Physical Review Letters, 2009, 102, 095501.	2.9	31
67	Light Scattering Study of Aggregation Kinetics in Dense, Gelling Aerosols. Aerosol Science and Technology, 2009, 43, 1053-1063.	1.5	7
68	Catalytic properties ofCandida antarcticalipase B clusters solubilized in hexane. Biocatalysis and Biotransformation, 2009, 27, 152-158.	1.1	1
69	Kinetics and morphology of cluster growth in a model of short-range attractive colloids. Journal of Chemical Physics, 2009, 131, 194908.	1.2	13
70	General derivation of the total electromagnetic cross sections for an arbitrary particle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 43-50.	1.1	9
71	On definition and measurement of extinction cross section. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 323-327.	1.1	32
72	Synthesis of CdSe Quantum Dots by Evaporation of Bulk CdSe using SMAD and Digestive Ripening Processes. Chemistry of Materials, 2009, 21, 1248-1252.	3.2	36

#	Article	IF	Citations
73	Self-Assembly of Ligated Gold Nanoparticles: Phenomenological Modeling and Computer Simulations. Langmuir, 2009, 25, 13861-13868.	1.6	80
74	Qâ€Space Analysis Applied to Polydisperse, Dense Random Aggregates. Particle and Particle Systems Characterization, 2008, 25, 68-73.	1.2	7
75	The effect of shear on colloidal aggregation and gelation studied using small-angle light scattering. Journal of Colloid and Interface Science, 2008, 327, 216-223.	5.0	13
76	Biocidal Activity of Nanocrystalline Silver Powders and Particles. Langmuir, 2008, 24, 7457-7464.	1.6	190
77	Effects of temperature and shear force on infectivity of the baculovirus Autographa californica M nucleopolyhedrovirus. Journal of Virological Methods, 2008, 153, 90-96.	1.0	26
78	Gold nanoparticle superlattices. Chemical Society Reviews, 2008, 37, 1871.	18.7	190
79	Reflection symmetry of a sphere's internal field and its consequences on scattering: a microphysical approach. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 98.	0.8	12
80	Extinction and the optical theorem Part I Single particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1504.	0.8	66
81	Extinction and the optical theorem Part II Multiple particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1514.	0.8	29
82	Proteinâ€“protein interactions and lens transparency. Experimental Eye Research, 2008, 87, 496-501.	1.2	82
83	Digestive Ripening, or â€œNanomachining,â€• to Achieve Nanocrystal Size Control. , 2008, , 233-249.		7
84	Modeling arrested cluster growth in quenched nanoparticle solutions. Journal of Chemical Physics, 2008, 129, 034706.	1.2	0
85	Shear effects on crystal nucleation in colloidal suspensions. Physical Review E, 2008, 78, 031403.	0.8	33
86	Age-dependent association of gamma-crystallins with aged alpha-crystallins from old bovine lens. Molecular Vision, 2008, 14, 970-4.	1.1	8
87	Aerosol Gelation: Synthesis of a Novel, Lightweight, High Specific Surface Area Material. Aerosol Science and Technology, 2007, 41, 804-810.	1.5	26
88	Synthesis and Characterization of a New Tiara Pd(II) Thiolate Complex, [Pd(SC12H25)2]6, and Its Solution-Phase Thermolysis to Prepare Nearly Monodisperse Palladium Sulfide Nanoparticles. Inorganic Chemistry, 2007, 46, 2427-2431.	1.9	77
89	From Monodisperse Sulfurized Palladium Nanoparticles to Tiara Pd(II) Thiolate Clusters:â€‰ Influence of Thiol Ligand on Thermal Treatment of a Palladium(II)â^'Amine System. Journal of Physical Chemistry C, 2007, 111, 18143-18147.	1.5	27
90	Gram-scale synthesis of aqueous gold colloids stabilized by various ligands. Journal of Colloid and Interface Science, 2007, 309, 94-98.	5.0	38

#	Article	IF	Citations
91	Extinction and the Electromagnetic Optical Theorem. , 2007, , .		2
92	Low-Temperature Metallic Alloying of Copper and Silver Nanoparticles with Gold Nanoparticles through Digestive Ripening. Journal of Physical Chemistry B, 2006, 110, 2155-2158.	1.2	95
93	Soot aggregates, superaggregates and gel-like networks in laminar diffusion flames. Journal of Aerosol Science, 2006, 37, 386-401.	1.8	52
94	Synthesis of spherical silver nanoparticles by digestive ripening, stabilization with various agents, and their 3-D and 2-D superlattice formation. Journal of Colloid and Interface Science, 2005, 284, 521-526.	5.0	221
95	NOVEL METHOD FOR THE SYNTHESIS OF SILOXANE NANOWIRES AND FILAMENTS USING GOLD NANOPARTICLE CATALYSTS. International Journal of Nanoscience, 2005, 04, 1007-1010.	0.4	1
96	Reversible Transformations of Gold Nanoparticle Morphology. Langmuir, 2005, 21, 10280-10283.	1.6	70
97	Quantitative Information about the Hydrogen Bond Strength in Dilute Aqueous Solutions of Methanol from the Temperature Dependence of the Raman Spectra of the Decoupled OD Stretch. Journal of Physical Chemistry A, 2005, 109, 7850-7853.	1.1	17
98	Aggregationâ˜Fragmentation in a Model of DNA-Mediated Colloidal Assembly. Langmuir, 2005, 21, 8992-8999.	1.6	11
99	Patterns in Mie scattering: evolution when normalized by the Rayleigh cross section. Applied Optics, 2005, 44, 7487.	2.1	33
100	Multiple-scattering effects on static light-scattering optical structure factor measurements. Applied Optics, 2005, 44, 7858.	2.1	15
101	Nanocrystal Superlattices of Copper, Silver and Gold, by Nanomachining. , 2005, , 309-316.		0
102	Molecular dynamics simulation of the transition from dispersed to solid phase. Physical Review E, 2004, 69, 031408.	0.8	11
103	Structural crossover in dense irreversibly aggregating particulate systems. Physical Review E, 2004, 69, 061401.	0.8	28
104	Structure factor scaling in colloidal phase separation. Physical Review E, 2004, 70, 051405.	0.8	17
105	Kinetics of phase transformations in depletion-driven colloids. Physical Review E, 2004, 70, 011405.	0.8	27
106	Universal Occurrence of Soot Superaggregates with a Fractal Dimension of 2.6 in Heavily Sooting Laminar Diffusion Flames. Langmuir, 2004, 20, 3969-3973.	1.6	34
107	Cluster Shape Anisotropy in Irreversibly Aggregating Particulate Systems. Langmuir, 2004, 20, 7871-7879.	1.6	31
108	Computer Simulation of Selective Aggregation in Binary Colloids. Langmuir, 2004, 20, 2498-2502.	1.6	15

#	Article	IF	Citations
109	Nanocrystal superlattice imaging by atomic force microscopy. , 2004, 5513, 174.		1
110	Observation of Soot Superaggregates with a Fractal Dimension of 2.6 in Laminar Acetylene/Air Diffusion Flames. Langmuir, 2003, 19, 7560-7563.	1.6	57
111	Digestive-Ripening Agents for Gold Nanoparticles:Â Alternatives to Thiols. Chemistry of Materials, 2003, 15, 935-942.	3.2	297
112	Gold Nanoparticles as Catalysts for Polymerization of Alkylsilanes to Siloxane Nanowires, Filaments, and Tubes. Journal of the American Chemical Society, 2003, 125, 10488-10489.	6.6	95
113	Face-Centered Cubic and Hexagonal Closed-Packed Nanocrystal Superlattices of Gold Nanoparticles Prepared by Different Methodsâ€. Journal of Physical Chemistry B, 2003, 107, 7441-7448.	1.2	225
114	Calorimetric study of magnetic fluids under a magnetic field. Physical Review E, 2003, 68, 021501.	0.8	4
115	Patterns in the ripple structure of Mie scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 122.	0.8	26
116	Experimental test of the Rayleigh-Debye-Gans theory for light scattering by fractal aggregates. Applied Optics, 2002, 41, 4645.	2.1	44
117	Gram-Scale Synthesis of Monodisperse Gold Colloids by the Solvated Metal Atom Dispersion Method and Digestive Ripening and Their Organization into Two- and Three-Dimensional Structures. Journal of the American Chemical Society, 2002, 124, 2305-2311.	6.6	327
118	Hydrolysis of Magnesium Methoxide. Effects of Toluene on Gel Structure and Gel Chemistry. Chemistry of Materials, 2002, 14, 362-368.	3.2	80
119	Digestive Ripening of Thiolated Gold Nanoparticles:Â The Effect of Alkyl Chain Length. Langmuir, 2002, 18, 7515-7520.	1.6	283
120	Cadmium (zinc) manganese sulfide nanocrystalline (Cd1-xMnxS and Zn1-xMnxS) dilute magnetic semiconductors. synthesis, annealing, and effects of surface oxidation on magnetic properties. Israel Journal of Chemistry, 2001, 41, 63-68.	1.0	2
121	Two-Dimensional Soot. Langmuir, 2001, 17, 5431-5434.	1.6	25
122	Trends in the adsorption of mono-end-capped polystyrenes onto polar substrates: Theoretical predictions and experimental observations. Journal of Applied Polymer Science, 2000, 76, 1422-1447.	1.3	0
123	Patterns in Mie scattering. Optics Communications, 2000, 173, 145-153.	1.0	63
124	Preparation of yttriumâ€“iron-garnet nanocrystals dispersed in nanosize-pore glass. Journal of Magnetism and Magnetic Materials, 2000, 222, 54-64.	1.0	42
125	The optics of single particles and fractal aggregates. Journal of Aerosol Science, 2000, 31, 952-954.	1.8	3
126	Note on the Correction for Diffusion and Drag in the Slip Regime. Aerosol Science and Technology, 2000, 33, 353-356.	1.5	18

#	Article	IF	Citations
127	Encapsulated iron, cobalt and nickel nanocrystals; Effect of coating material (Mg, MgF2) on magnetic properties. Scripta Materialia, 1999, 12, 1053-1058.	0.5	7
128	Thermal blooming effect on particle sizing with photon correlation spectroscopy. Applied Optics, 1999, 38, 1884.	2.1	5
129	Light scattering study of fractal cluster aggregation near the free molecular regime. Journal of Aerosol Science, 1997, 28, 937-957.	1.8	78
130	The Prefactor of Fractal Aggregates. Journal of Colloid and Interface Science, 1997, 186, 447-452.	5.0	318
131	The Effect of Overlap between Monomers on the Determination of Fractal Cluster Morphology. Journal of Colloid and Interface Science, 1997, 193, 17-25.	5.0	199
132	Heat treatment effects on structural and magnetic properties of fine FeB particles. Journal of Magnetism and Magnetic Materials, 1996, 164, 357-366.	1.0	5
133	Analysis of Fractal Cluster Morphology Parameters: Structural Coefficient and Density Autocorrelation Function Cutoff. Journal of Colloid and Interface Science, 1995, 171, 470-473.	5.0	97
134	Fractal Cluster Size Distribution Measurement Using Static Light Scattering. Journal of Colloid and Interface Science, 1995, 174, 456-460.	5.0	41
135	Chemistry of Borohydride Reduction of Iron(II) and Iron(III) Ions in Aqueous and Nonaqueous Media. Formation of Nanoscale Fe, FeB, and Fe2B Powders. Inorganic Chemistry, 1995, 34, 28-35.	1.9	335
136	Enhanced magnetization of nanoscale colloidal cobalt particles. Physical Review B, 1995, 51, 11527-11532.	1.1	270
137	Structure and spin-glass properties of Cd/sub 0.5/Mn/sub 0.5/S diluted magnetic semiconductor quantum dots. IEEE Transactions on Magnetics, 1995, 31, 3761-3763.	1.2	4
138	Structural phase behavior in IIâ€“VI semiconductor nanoparticles. Applied Physics Letters, 1995, 67, 831-833.	1.5	231
139	Synthesis and properties of Cd/sub 1-x/Mn/sub x/S diluted magnetic semiconductor nanoparticles. IEEE Transactions on Magnetics, 1994, 30, 4930-4932.	1.2	11
140	Magnetic properties of nanophase cobalt particles synthesized in inversed micelles. Journal of Applied Physics, 1994, 76, 6316-6318.	1.1	122
141	Magnetic properties of microemulsion synthesized cobalt fine particles. Journal of Applied Physics, 1994, 75, 5876-5878.	1.1	104
142	Depolarized light scattering from fractal soot aggregates. Physical Review E, 1994, 50, 3109-3115.	0.8	40
143	Structural and magnetic properties of ultrafine Feâ€Pd particles. Journal of Applied Physics, 1994, 75, 5885-5887.	1.1	15
144	Diffusion of fractal aggregates in the free molecular regime. Physical Review E, 1994, 50, 3397-3400.	0.8	45

#	Article	IF	Citations
145	Nanoscale magnetic particles. New methods to surface protected metallic and immiscible bimetallic clusters/particles. Polyhedron, 1994, 13, 1197-1223.	1.0	60
146	Borohydride Reduction of Nickel and Copper Ions in Aqueous and Nonaqueous Media. Controllable Chemistry Leading to Nanoscale Metal and Metal Boride Particles. Langmuir, 1994, 10, 4726-4730.	1.6	157
147	Magnetic and structural properties of vaporâ€deposited Feâ€Co alloy particles. Journal of Applied Physics, 1994, 76, 6319-6321.	1.1	16
148	Magnetism in ultrafine Fe and Co particles. IEEE Transactions on Magnetics, 1993, 29, 2602-2607.	1.2	32
149	Exchange anisotropy in oxide passivated Co fine particles. Journal of Applied Physics, 1993, 73, 6964-6966.	1.1	131
150	Co-Pt-B particles prepared by chemical reduction. IEEE Transactions on Magnetics, 1993, 29, 2646-2648.	1.2	11
151	Effect of particle size and surface chemistry on the interactions among fine metallic particles. IEEE Transactions on Magnetics, 1993, 29, 2619-2621.	1.2	25
152	Noncritical behavior of density fluctuations in supercooled water. Physical Review Letters, 1993, 71, 2050-2053.	2.9	115
153	Borohydride reduction of cobalt ions in water. Chemistry leading to nanoscale metal, boride, or borate particles. Langmuir, 1993, 9, 162-169.	1.6	224
154	Comment on â€˜â€˜Structure of silica gelsâ€™â€™. Physical Review Letters, 1993, 71, 1474-1474.	2.9	1
155	Relaxations in gels: Analogies to Î± and Î² relaxations in glasses. Physical Review Letters, 1993, 70, 1727-1730.	2.9	118
156	Tanget al. reply. Physical Review Letters, 1992, 68, 3114-3114.	2.9	24
157	Anomalous diffusion in aqueous solutions of gelatin. Physical Review A, 1992, 45, 2416-2422.	1.0	107
158	Scaling dynamics of aerosol coagulation. Physical Review A, 1992, 45, 5614-5623.	1.0	16
159	Magnetic properties of ultrafine Co particles. IEEE Transactions on Magnetics, 1992, 28, 3174-3176.	1.2	77
160	Synthesis and characterization of stable colloidal Fe/sub 3/O/sub 4/ particles in water-in-oil microemulsions. IEEE Transactions on Magnetics, 1992, 28, 3180-3182.	1.2	79
161	Borohydride reductions of metal ions. A new understanding of the chemistry leading to nanoscale particles of metals, borides, and metal borates. Langmuir, 1992, 8, 771-773.	1.6	179
162	Still waters run still deeper. Nature, 1992, 360, 303-304.	13.7	8

#	Article	IF	Citations
163	Magnetic properties of ultrafine iron particles. Physical Review B, 1992, 45, 9778-9787.	1.1	475
164	Clusters of immiscible metals. Iron-lithium nanoscale bimetallic particle synthesis and behavior under thermal and oxidative treatments. Chemistry of Materials, 1991, 3, 967-976.	3.2	19
165	Magnetic properties of fine Feâ€Coâ€B particles prepared by chemical reduction. Journal of Applied Physics, 1991, 69, 5141-5143.	1.1	14
166	Effect of oxide layer on the hysteresis behavior of fine Fe particles. Journal of Applied Physics, 1991, 70, 5888-5890.	1.1	94
167	Sizeâ€dependent magnetic properties of manganese ferrite fine particles. Journal of Applied Physics, 1991, 69, 5279-5281.	1.1	46
168	Studies of Pdâ€Fe fine particles (abstract). Journal of Applied Physics, 1990, 67, 5907-5907.	1.1	0
169	Magnetic properties of nanoscale iron particles. Journal of Applied Physics, 1990, 67, 5897-5898.	1.1	15
170	Magnetic properties of fine cobalt particles prepared by metal atom reduction. Journal of Applied Physics, 1990, 67, 4502-4504.	1.1	18
171	Magnetic properties of ultrafine Feâ€Niâ€B particles. Journal of Applied Physics, 1990, 67, 4478-4480.	1.1	18
172	Variable aggregation rates in colloidal gold: Kernel homogeneity dependence on aggregant concentration. Physical Review A, 1990, 41, 2093-2100.	1.0	40
173	Magnetic hysteresis and MÃ¶ssbauer studies in ultrafine iron particles. Journal of Applied Physics, 1990, 67, 4487-4489.	1.1	65
174	Magnetic properties of nanometer-scale iron particles generated by iron atom clustering in cold pentane. Chemistry of Materials, 1990, 2, 70-74.	3.2	25
175	Light scattering study of the glass transition in salol. Physical Review B, 1989, 40, 461-466.	1.1	36
176	Magnetic properties of fine Fe-B particles. IEEE Transactions on Magnetics, 1989, 25, 3641-3643.	1.2	20
177	Magnetic properties of aerosol synthesized barium ferrite particles. IEEE Transactions on Magnetics, 1989, 25, 4236-4238.	1.2	46
178	Nonaqueous perfluorocarbon-derived gold colloids. 1. Clustering of metal atoms in fluorocarbon media. Chemistry of Materials, 1989, 1, 12-14.	3.2	26
179	Cloud-point measurements for the mixture tertiary butyl alcohol, secondary butyl alcohol, and water. International Journal of Thermophysics, 1988, 9, 703-712.	1.0	18
180	Magnetic studies of fine iron and ironâ€oxide particles. Journal of Applied Physics, 1988, 64, 5835-5837.	1.1	24

#	Article	IF	Citations
181	Comment on Sooting Correlations for Premixed Flames F. TAKAHASHI and I. GLASSMAN. Combustion Science and Technology, 1987, 54, 407-412.	1.2	1
182	Moment analysis of the cluster-size-distribution approach to scaling during coagulation. Physical Review A, 1987, 36, 5415-5419.	1.0	25
183	Cluster-size evolution in a coagulation-fragmentation system. Physical Review Letters, 1987, 59, 363-366.	2.9	77
184	Gaussian beam effects on the photon correlation spectrum from a flowing Brownian motion system. Applied Optics, 1986, 25, 2421.	2.1	42
185	Chemical and Optical Probing of Premixed Methane/Oxygen Flames. Combustion Science and Technology, 1986, 48, 241-255.	1.2	23
186	Dynamic light scattering as a probe of the evolution of a self-preserving size distribution in a fractal system. Physical Review A, 1986, 33, 1411-1413.	1.0	6
187	Shear-Viscosity Behavior near the Double Critical Point of the Mixture 3-Methylpyridine, Water, and Heavy Water. Physical Review Letters, 1985, 54, 343-345.	2.9	37
188	Direct Measurements of Aerosol Diffusion Constants in the Intermediate Knudsen Regime. Physical Review Letters, 1983, 50, 1125-1128.	2.9	17
189	Shear viscosity of the binary liquid mixture 3-methylpentane + nitroethane near the consolute point. International Journal of Thermophysics, 1982, 3, 365-369.	1.0	10
190	Scaling equation of state derived from the pseudospinodal. Physical Review A, 1980, 21, 340-346.	1.0	25
191	Rayleigh-Linewidth Measurements near the Critical Point of a Binary Fluid. Physical Review Letters, 1978, 40, 777-780.	2.9	29
192	Multiple scattering from a system of Brownian particles. Physical Review A, 1978, 17, 2030-2035.	1.0	41
193	Autocorrelation spectroscopy of nickel chloride aqueous solutions. Journal of Physics C: Solid State Physics, 1977, 10, L115-L119.	1.5	3
194	Autocorrelation spectroscopy studies of single and multiple scattered light from a critical fluid mixture. Physical Review A, 1977, 16, 365-376.	1.0	58
195	Depolarized correlation function of light double scattered from a system of Brownian particles. Physical Review A, 1976, 14, 1520-1532.	1.0	73
196	On lysozyme as a possible high-temperature superconductor. Journal of Physics C: Solid State Physics, 1976, 9, L251-L254.	1.5	2
197	Diffusing droplet model for Rayleigh linewidth studies on critical fluids. Physical Review A, 1976, 13, 1593-1600.	1.0	39
198	Brownian-Diffusion Viscosity Measurement in a Thermal Gradient. Physical Review Letters, 1975, 34, 1194-1196.	2.9	4

#	Article	IF	Citations
199	Dynamic-Droplet-Model Interpretation of Light-Scattering Experiments on Critical Fluids. Physical Review Letters, 1975, 34, 1371-1374.	2.9	37