Alfons van Blaaderen

List of Publications by Year
in descending order

241 papers	22,295 citations	8749 75 h-index	9334 143 g-index
253 all docs	253 docs citations	253 times ranked	17299 citing authors

#	Article	IF	Citations
1	Tandem catalysis with double-shelled hollow spheres. Nature Materials, 2022, 21, 572-579.	13.3	65
2	Synthesis and Characterization of Anatase TiO2 Nanorods: Insights from Nanorodsâ€™ Formation and Self-Assembly. Applied Sciences (Switzerland), 2022, 12, 1614.	1.3	6
3	Silicaâ€Coated Gold Nanorod Supraparticles: A Tunable Platform for Surface Enhanced Raman Spectroscopy. Advanced Functional Materials, 2022, 32, .	7.8	19
4	Lowâ€dose liquid cell electron microscopy investigation of the complex etching mechanism of rodâ€shaped silica colloids. Nano Select, 2021, 2, 313-327.	1.9	2
5	Binary icosahedral clusters of hard spheres in spherical confinement. Nature Physics, 2021, 17, 128-134.	6.5	42
6	Single-step coating of mesoporous SiO₂ onto nanoparticles: growth of yolkâ€“shell structures from coreâ€“shell structures. Nanoscale, 2021, 13, 10925-10932.	2.8	7
7	Symmetric and asymmetric epitaxial growth of metals (Ag, Pd, and Pt) onto Au nanotriangles: effects of reductants and plasmonic properties. Nanoscale, 2021, 13, 2902-2913.	2.8	10
8	Structural Control over Bimetallic Coreâ€“Shell Nanorods for Surface-Enhanced Raman Spectroscopy. ACS Omega, 2021, 6, 7034-7046.	1.6	29
9	Unlocking synergy in bimetallic catalysts by coreâ€“shell design. Nature Materials, 2021, 20, 1216-1220.	13.3	111
10	Tunability of Interactions between the Core and Shell in Rattle-Type Particles Studied with Liquid-Cell Electron Microscopy. ACS Nano, 2021, 15, 11137-11149.	7.3	7
11	Quantitative 3D real-space analysis of Laves phase supraparticles. Nature Communications, 2021, 12, 3980.	5.8	12
12	3D Atomicâ€Scale Dynamics of Laserâ€Lightâ€Induced Restructuring of Nanoparticles Unraveled by Electron Tomography. Advanced Materials, 2021, 33, 2100972.	11.1	10
13	3D test sample for the calibration and quality control of stimulated emission depletion (STED) and confocal microscopes. Communications Biology, 2021, 4, 909.	2.0	4
14	In Situ Study of the Wet Chemical Etching of SiO2 and Nanoparticle@SiO2 Coreâ€“Shell Nanospheres. ACS Applied Nano Materials, 2021, 4, 1136-1148.	2.4	10
15	Optimized 3D Reconstruction of Large, Compact Assemblies of Metallic Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 26240-26246.	1.5	5
16	Smectic Liquid Crystalline Titanium Dioxide Nanorods: Reducing Attractions by Optimizing Ligand Density. Advanced Functional Materials, 2020, 30, 2005491.	7.8	9
17	Multivalent Patchy Colloids for Quantitative 3D Self-Assembly Studies. Langmuir, 2020, 36, 2403-2418.	1.6	13
18	Predatorâ€“prey interactions between droplets driven by non-reciprocal oil exchange. Nature Chemistry, 2020, 12, 1136-1142.	6.6	108

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19	Observation of Undamped 3D Brownian Motion of Nanoparticles Using Liquidâ€Cell Scanning Transmission Electron Microscopy. Particle and Particle Systems Characterization, 2020, 37, 2000003.	1.2	18
20	Compartmentalization of gold nanoparticle clusters in hollow silica spheres and their assembly induced by an external electric field. Journal of Colloid and Interface Science, 2020, 566, 202-210.	5.0	15
21	Flexibility-induced effects in the Brownian motion of colloidal trimers. Physical Review Research, 2020, 2, .	1.3	10
22	Seeded-Growth of Silica Rods from Silica-Coated Particles. Langmuir, 2019, 35, 14913-14919.	1.6	5
23	Quantitative 3D Characterization of Elemental Diffusion Dynamics in Individual Ag@Au Nanoparticles with Different Shapes. ACS Nano, 2019, 13, 13421-13429.	7.3	37
24	Nanocrystal Core Size and Shape Substitutional Doping and Underlying Crystalline Order in Nanocrystal Superlattices. ACS Nano, 2019, 13, 5712-5719.	7.3	30
25	Bridging the gap: 3D real-space characterization of colloidal assemblies via FIB-SEM tomography. Nanoscale, 2019, 11, 5304-5316.	2.8	24
26	Luminescence thermometry for in situ temperature measurements in microfluidic devices. Lab on A Chip, 2019, 19, 1236-1246.	3.1	64
27	Shaping Silica Rods by Tuning Hydrolysis and Condensation of Silica Precursors. Chemistry of Materials, 2019, 31, 521-531.	3.2	16
28	In-situ Observation of Hierarchical Self-Assembly Driven by Bicontinuous Gelation in Mixed Nanodisc Dispersions. Scientific Reports, 2018, 8, 5589.	1.6	8
29	Lasing Supraparticles Self-Assembled from Nanocrystals. ACS Nano, 2018, 12, 12788-12794.	7.3	51
30	Crystallization of Nanocrystals in Spherical Confinement Probed by in Situ X-ray Scattering. Nano Letters, 2018, 18, 3675-3681.	4.5	53
31	Impact of the electron beam on the thermal stability of gold nanorods studied by environmental transmission electron microscopy. Ultramicroscopy, 2018, 193, 97-103.	0.8	35
32	In Situ Observation of Atomic Redistribution in Alloying Goldâ€“Silver Nanorods. ACS Nano, 2018, 12, 8467-8476.	7.3	32
33	Interplay between spherical confinement and particle shape on the self-assembly of rounded cubes. Nature Communications, 2018, 9, 2228.	5.8	81
34	NaYF₄:Er³⁺,Yb³⁺/SiO₂ Core/Shell Upconverting Nanocrystals for Luminescence Thermometry up to 900 K. Journal of Physical Chemistry C, 2017, 121, 3503-3510.	1.5	185
35	Fully alloyed metal nanorods with highly tunable properties. Nanoscale, 2017, 9, 2845-2851.	2.8	39
36	Microelectrophoresis of Silica Rods Using Confocal Microscopy. Langmuir, 2017, 33, 881-890.	1.6	17

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37	Colloidâ€“oilâ€“water-interface interactions in the presence of multiple salts: charge regulation and dynamics. Physical Chemistry Chemical Physics, 2017, 19, 14345-14357.	1.3	7
38	Morphological and chemical transformations of single silica-coated CdSe/CdS nanorods upon fs-laser excitation. Nanoscale, 2017, 9, 4810-4818.	2.8	4
39	Sculpting Silica Colloids by Etching Particles with Nonuniform Compositions. Chemistry of Materials, 2017, 29, 3304-3313.	3.2	17
40	Yolk/Shell Colloidal Crystals Incorporating Movable Cores with Their Motion Controlled by an External Electric Field. Langmuir, 2017, 33, 296-302.	1.6	18
41	Axial Confocal Tomography of Capillary-Contained Colloidal Structures. Langmuir, 2017, 33, 13343-13349.	1.6	2
42	Revealing and Quantifying the Three-Dimensional Nano- and Microscale Structures in Self-Assembled Cellulose Microfibrils in Dispersions. ACS Omega, 2017, 2, 5019-5024.	1.6	11
43	Preparation and Self-Assembly of Dendronized Janus Fe₃O₄â€“Pt and Fe₃O₄â€“Au Heterodimers. ACS Nano, 2017, 11, 7958-7966.	7.3	46
44	Composite Supraparticles with Tunable Light Emission. ACS Nano, 2017, 11, 9136-9142.	7.3	39
45	Regiospecific Nucleation and Growth of Silane Coupling Agent Droplets onto Colloidal Particles. Journal of Physical Chemistry C, 2017, 121, 19989-19998.	1.5	10
46	Solute-mediated interactions between active droplets. Physical Review E, 2017, 96, 032607.	0.8	52
47	Repulsive van der Waals forces enable Pickering emulsions with non-touching colloids. Soft Matter, 2016, 12, 7265-7272.	1.2	17
48	Synthesis of Cone-Shaped Colloids from Rod-Like Silica Colloids with a Gradient in the Etching Rate. Langmuir, 2016, 32, 3970-3976.	1.6	19
49	Dynamic self-organization of side-propelling colloidal rods: experiments and simulations. Soft Matter, 2016, 12, 9657-9665.	1.2	22
50	Stability and geometry of silica nano-ribbons (SNRs): a first-principles study. Physical Chemistry Chemical Physics, 2016, 18, 21825-21832.	1.3	3
51	Random three-dimensional jammed packings of elastic shells acting as force sensors. Physical Review E, 2016, 93, 062901.	0.8	5
52	Alternating strings and clusters in suspensions of charged colloids. Soft Matter, 2016, 12, 6610-6620.	1.2	7
53	Acetate ligands determine the crystal structure of CdSe nanoplatelets â€“ a density functional theory study. Physical Chemistry Chemical Physics, 2016, 18, 22021-22024.	1.3	12
54	Phase diagram of binary colloidal rod-sphere mixtures from a 3D real-space analysis of sedimentationâ€“diffusion equilibria. Soft Matter, 2016, 12, 9238-9245.	1.2	25

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55	Selective Depletion Interactions in Mixtures of Rough and Smooth Silica Spheres. Langmuir, 2016, 32, 1233-1240.	1.6	33
56	Single Particle Deformation and Analysis of Silica-Coated Gold Nanorods before and after Femtosecond Laser Pulse Excitation. Nano Letters, 2016, 16, 1818-1825.	4.5	58
57	Electric-Field-Induced Lock-and-Key Interactions between Colloidal Spheres and Bowls. Chemistry of Materials, 2016, 28, 1040-1048.	3.2	19
58	Quantitative 3D analysis of huge nanoparticle assemblies. Nanoscale, 2016, 8, 292-299.	2.8	38
59	Self-Assembly: Self-Organization of Anisotropic and Binary Colloids in Thermo-Switchable 1D Microconfinement (Part. Part. Syst. Charact. 3/2015). Particle and Particle Systems Characterization, 2015, 32, 270-270.	1.2	0
60	Confinement Induced Plastic Crystal-to-Crystal Transitions in Rodlike Particles with Long-Ranged Repulsion. Physical Review Letters, 2015, 115, 078301.	2.9	33
61	Long-Ranged Oppositely Charged Interactions for Designing New Types of Colloidal Clusters. Physical Review X, 2015, 5, .	2.8	30
62	Determination of the positions and orientations of concentrated rod-like colloids from 3D microscopy data. Journal of Physics Condensed Matter, 2015, 27, 194109.	0.7	32
63	Two-Dimensional Hydrous Silica: Nanosheets and Nanotubes Predicted from First-Principles Simulations. Journal of Physical Chemistry C, 2015, 119, 14343-14350.	1.5	9
64	Selfâ€Organization of Anisotropic and Binary Colloids in Thermoâ€Switchable 1D Microconfinement. Particle and Particle Systems Characterization, 2015, 32, 313-320.	1.2	11
65	Bulk Scale Synthesis of Monodisperse PDMS Droplets above 3 Î¼m and Their Encapsulation by Elastic Shells. Chemistry of Materials, 2015, 27, 1709-1719.	3.2	16
66	Charging of Poly(methyl methacrylate) (PMMA) Colloids in Cyclohexyl Bromide: Locking, Size Dependence, and Particle Mixtures. Langmuir, 2015, 31, 65-75.	1.6	29
67	Stabilization of Rock Salt ZnO Nanocrystals by Low-Energy Surfaces and Mg Additions: A First-Principles Study. Journal of Physical Chemistry C, 2015, 119, 5648-5656.	1.5	31
68	Jammed elastic shells â€“ a 3D experimental soft frictionless granular system. Soft Matter, 2015, 11, 1800-1813.	1.2	7
69	Nematic ordering of polarizable colloidal rods in an external electric field: theory and experiment. Physical Chemistry Chemical Physics, 2015, 17, 22423-22430.	1.3	8
70	Directed Self-Assembly of Micron-Sized Gold Nanoplatelets into Oriented Flexible Stacks with Tunable Interplate Distance. Nano Letters, 2015, 15, 5617-5623.	4.5	22
71	Shape-Dependent Multiexciton Emission and Whispering Gallery Modes in Supraparticles of CdSe/Multishell Quantum Dots. ACS Nano, 2015, 9, 3942-3950.	7.3	53
72	Oxidative Etching and Metal Overgrowth of Gold Nanorods within Mesoporous Silica Shells. Chemistry of Materials, 2015, 27, 7196-7203.	3.2	42

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73	The accurate calculation of the band gap of liquid water by means of GW corrections applied to plane-wave density functional theory molecular dynamics simulations. Physical Chemistry Chemical Physics, 2015, 17, 365-375.	1.3	54
74	Methods to calibrate and scale axial distances in confocal microscopy as a function of refractive index. Journal of Microscopy, 2015, 257, 142-150.	0.8	49
75	Entropy-driven formation of large icosahedral colloidal clusters by spherical confinement. Nature Materials, 2015, 14, 56-60.	13.3	237
76	Site-specific growth of polymers on silica rods. Soft Matter, 2014, 10, 9644-9650.	1.2	25
77	Colloidal Silica Rods: Material Properties and Fluorescent Labeling. Particle and Particle Systems Characterization, 2014, 31, 706-713.	1.2	43
78	Fabrication of Polyhedral Particles from Spherical Colloids and Their Selfâ€Assembly into Rotator Phases. Angewandte Chemie - International Edition, 2014, 53, 13830-13834.	7.2	36
79	Coreâ€“shell reconfiguration through thermal annealing in Fe_xO/CoFe₂O₄ordered 2D nanocrystal arrays. Nanotechnology, 2014, 25, 055601.	1.3	9
80	Development of photonic crystal structures for on-board optical communication. Proceedings of SPIE, 2014, , .	0.8	2
81	An experimental and simulation study on the self-assembly of colloidal cubes in external electric fields. Soft Matter, 2014, 10, 9110-9119.	1.2	35
82	Atomic Resolution Monitoring of Cation Exchange in CdSe-PbSe Heteronanocrystals during Epitaxial Solidâ€“Solidâ€“Vapor Growth. Nano Letters, 2014, 14, 3661-3667.	4.5	48
83	Switching plastic crystals of colloidal rods with electric fields. Nature Communications, 2014, 5, 3092.	5.8	103
84	Orientation of a dielectric rod near a planar electrode. Physical Chemistry Chemical Physics, 2014, 16, 22575-22582.	1.3	10
85	Effect of external electric fields on the phase behavior of colloidal silica rods. Soft Matter, 2014, 10, 6249-6255.	1.2	42
86	Unloading and Reloading Colloidal Microcapsules with Apolar Solutions by Controlled and Reversible Buckling. Langmuir, 2014, 30, 2385-2393.	1.6	26
87	Manipulating the self assembly of colloids in electric fields. European Physical Journal: Special Topics, 2013, 222, 2895-2909.	1.2	69
88	General Route toward Chemically Anisotropic Colloids. Chemistry of Materials, 2013, 25, 4348-4353.	3.2	51
89	In situ hard X-ray microscopy of self-assembly in colloidal suspensions. RSC Advances, 2013, 3, 15670.	1.7	38
90	Expansion of charged colloids after centrifugation: formation and crystallisation of long-range repulsive glasses. Soft Matter, 2013, 9, 11618.	1.2	11

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91	Polymer-based optical interconnects using nanoimprint lithography. , 2013, , .		4
92	Effect of size polydispersity on the crystal-fluid and crystal-glass transition in hard-core repulsive Yukawa systems. Journal of Chemical Physics, 2013, 138, 114903.	1.2	24
93	Colloidal Clusters by Using Emulsions and Dumbbellâ€Shaped Particles: Experiments and Simulations. Angewandte Chemie - International Edition, 2013, 52, 6709-6712.	7.2	39
94	Fuel concentration dependent movement of supramolecular catalytic nanomotors. Nanoscale, 2013, 5, 1315-1318.	2.8	56
95	Direct Observation of the Formation of Liquid Protrusions on Polymer Colloids and their Coalescence. ACS Applied Materials & Interfaces, 2013, 5, 4277-4284.	4.0	25
96	Synthesis of Monodisperse, Highly Cross-Linked, Fluorescent PMMA Particles by Dispersion Polymerization. Langmuir, 2012, 28, 6776-6785.	1.6	81
97	Synthesis of fluorescent monodisperse non-spherical dumbbell-like model colloids. Journal of Materials Chemistry, 2012, 22, 21893.	6.7	52
98	Surface roughness directed self-assembly of patchy particles into colloidal micelles. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10787-10792.	3.3	317
99	A qualitative confocal microscopy study on a range of colloidal processes by simulating microgravity conditions through slow rotations. Soft Matter, 2012, 8, 6979.	1.2	24
100	Directed Orientation of Asymmetric Composite Dumbbells by Electric Field Induced Assembly. Langmuir, 2012, 28, 6546-6550.	1.6	40
101	Colloidal Analogues of Charged and Uncharged Polymer Chains with Tunable Stiffness. Angewandte Chemie - International Edition, 2012, 51, 11249-11253.	7.2	94
102	Self-assembly of colloidal particles into strings in a homogeneous external electric or magnetic field. Journal of Physics Condensed Matter, 2012, 24, 464113.	0.7	35
103	Phase behavior of colloidal silica rods. Faraday Discussions, 2012, 159, 181.	1.6	124
104	Oscillatory shear-induced 3D crystalline order in colloidal hard-sphere fluids. Soft Matter, 2012, 8, 6931.	1.2	64
105	Nanonewton optical force trap employing anti-reflection coated, high-refractive-index titania microspheres. Nature Photonics, 2012, 6, 469-473.	15.6	108
106	Bonding Assembled Colloids without Loss of Colloidal Stability. Advanced Materials, 2012, 24, 412-416.	11.1	40
107	Nucleation of colloidal crystals on configurable seed structures. Soft Matter, 2011, 7, 4623.	1.2	55
108	Band Formation in Mixtures of Oppositely Charged Colloids Driven by an ac Electric Field. Physical Review Letters, 2011, 106, 228303.	2.9	74

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109	Seeded Growth of Titania Colloids with Refractive Index Tunability and Fluorophore-Free Luminescence. Langmuir, 2011, 27, 1626-1634.	1.6	23
110	Synthesis of Monodisperse, Rodlike Silica Colloids with Tunable Aspect Ratio. Journal of the American Chemical Society, 2011, 133, 2346-2349.	6.6	366
111	Measuring colloidal forces from particle position deviations inside an optical trap. Soft Matter, 2011, 7, 3462.	1.2	23
112	Electrophoresis of concentrated colloidal dispersions in low-polar solvents. Journal of Colloid and Interface Science, 2011, 361, 443-455.	5.0	32
113	Self-Assembly of a Colloidal Interstitial Solid with Tunable Sublattice Doping. Physical Review Letters, 2011, 107, 168302.	2.9	33
114	Lane formation in driven mixtures of oppositely charged colloids. Soft Matter, 2011, 7, 2352.	1.2	115
115	Synthesis of Hollow Asymmetrical Silica Dumbbells with a Movable Inner Core. Langmuir, 2010, 26, 5208-5212.	1.6	59
116	Directed Self-Assembly of Colloidal Dumbbells with an Electric Field. Langmuir, 2010, 26, 14466-14471.	1.6	92
117	A General Method to Coat Colloidal Particles with Titania. Langmuir, 2010, 26, 9297-9303.	1.6	85
118	Tuning the mechanical properties of silica microcapsules. Physical Chemistry Chemical Physics, 2010, 12, 15392.	1.3	47
119	Multi-particle collision dynamics simulations of sedimenting colloidal dispersions in confinement. Faraday Discussions, 2010, 144, 245-252.	1.6	24
120	Fabrication of large binary colloidal crystals with a NaCl structure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16063-16067.	3.3	82
121	Melting and crystallization of colloidal hard-sphere suspensions under shear. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10564-10569.	3.3	113
122	Directing Colloidal Selfâ€Assembly with Biaxial Electric Fields. Advanced Materials, 2009, 21, 3116-3120.	11.1	121
123	Quasicrystals from nanocrystals. Nature, 2009, 461, 892-893.	13.7	23
124	Dynamics of colloidal crystals in shear flow. Soft Matter, 2009, 5, 1060.	1.2	37
125	Self-Assembly of Colloids with Liquid Protrusions. Journal of the American Chemical Society, 2009, 131, 1182-1186.	6.6	188
126	Mutual influence of time-shared optical traps studied by means of Video Holographic Microscopy. , 2009, , .		0

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127	Direct observation of hydrodynamic instabilities in a driven non-uniform colloidal dispersion. Soft Matter, 2009, 5, 1340.	1.2	64
128	Comparing photonic band structure calculation methods for diamond and pyrochlore crystals. Optics Express, 2009, 17, 6952.	1.7	9
129	Hollow Silica Spheres: Synthesis and Mechanical Properties. Langmuir, 2009, 25, 2711-2717.	1.6	172
130	Quantitative Structural Analysis of Binary Nanocrystal Superlattices by Electron Tomography. Nano Letters, 2009, 9, 2719-2724.	4.5	90
131	Synthesis of Eccentric Titaniaâ^'Silica Coreâ^'Shell and Composite Particles. Chemistry of Materials, 2009, 21, 979-984.	3.2	61
132	Optical trapping of coated microspheres. Biophysical Journal, 2009, 96, 644a.	0.2	13
133	Binary Nanoparticle Superlattices in 3D: from Quantitative Analysis of Crystal Structures to Characterization of Lattice Defects.. Microscopy and Microanalysis, 2009, 15, 1192-1193.	0.2	0
134	Synthesis and Characterization of Photoswitchable Fluorescent Silica Nanoparticles. Small, 2008, 4, 134-142.	5.2	168
135	Anisotropic colloids through non-trivial buckling. European Physical Journal E, 2008, 27, 13-20.	0.7	70
136	On the Incorporation Mechanism of Hydrophobic Quantum Dots in Silica Spheres by a Reverse Microemulsion Method. Chemistry of Materials, 2008, 20, 2503-2512.	3.2	297
137	Controlling competition between crystallization and glass formation in binary colloids with an external field. Journal of Physics Condensed Matter, 2008, 20, 404225.	0.7	28
138	Gel Formation in Suspensions of Oppositely Charged Colloids: Mechanism and Relation to the Equilibrium Phase Diagram. Journal of Physical Chemistry B, 2008, 112, 10861-10872.	1.2	51
139	Chemical Modification of Colloidal Masks for Nanolithography. Langmuir, 2008, 24, 5967-5969.	1.6	9
140	Optical cavity modes in gold shell colloids. Journal of Applied Physics, 2008, 103, .	1.1	44
141	High trapping forces for high-refractive index particles trapped in dynamic arrays of counterpropagating optical tweezers. Applied Optics, 2008, 47, 3196.	2.1	53
142	Optical trapping of coated microspheres. Optics Express, 2008, 16, 13831.	1.7	88
143	Optical Properties of Spherical and Oblate Spheroidal Gold Shell Colloids. Journal of Physical Chemistry C, 2008, 112, 4146-4150.	1.5	39
144	Coated microspheres as enhanced probes for optical trapping. , 2008, , .		7

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145	Concentrating colloids with electric field gradients. I. Particle transport and growth mechanism of hard-sphere-like crystals in an electric bottle. Journal of Chemical Physics, 2008, 128, 164508.	1.2	36
146	Concentrating colloids with electric field gradients. II. Phase transitions and crystal buckling of long-ranged repulsive charged spheres in an electric bottle. Journal of Chemical Physics, 2008, 128, 164509.	1.2	23
147	Non-equilibrium sedimentation of colloids: confocal microscopy and Brownian dynamics simulations. Journal of Physics Condensed Matter, 2008, 20, 494222.	0.7	12
148	Out-of-equilibrium processes in suspensions of oppositely charged colloids: liquid-to-crystal nucleation and gel formation. Journal of Physics Condensed Matter, 2008, 20, 494247.	0.7	26
149	A new parallel plate shear cell for in situ real-space measurements of complex fluids under shear flow. Review of Scientific Instruments, 2007, 78, 103902.	0.6	28
150	Electrostatics at the oil-water interface, stability, and order in emulsions and colloids. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2585-2590.	3.3	244
151	Acoustic vibrations in nanosized gold-shell particles. Journal of Physics: Conference Series, 2007, 92, 012035.	0.3	1
152	Manipulating metal-oxide nanowires using counter-propagating optical line tweezers. Optics Express, 2007, 15, 11629.	1.7	41
153	Characterizing and tracking single colloidal particles with video holographic microscopy. Optics Express, 2007, 15, 18275.	1.7	272
154	Ion partitioning at the oilâ€“water interface as a source of tunable electrostatic effects in emulsions with colloids. Physical Chemistry Chemical Physics, 2007, 9, 6405.	1.3	77
155	Coherent vibrations of submicron spherical gold shells in a photonic crystal. Physical Review B, 2007, 75, .	1.1	32
156	Nonequilibrium Sedimentation of Colloids on the Particle Scale. Physical Review Letters, 2007, 98, 188304.	2.9	122
157	Self-assembly route for photonic crystals with a bandgap in the visible region. Nature Materials, 2007, 6, 202-205.	13.3	357
158	Colloids get complex. Nature, 2006, 439, 545-546.	13.7	230
159	Surface molecular view of colloidal gelation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13310-13314.	3.3	57
160	Microradian X-ray diffraction in colloidal photonic crystals. Journal of Applied Crystallography, 2006, 39, 137-144.	1.9	94
161	Anisotropic deformation of metallo-dielectric coreâ€“shell colloids under MeV ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 523-529.	0.6	71
162	Re-entrant melting and freezing in a model system of charged colloids. Journal of Chemical Physics, 2006, 124, 244706.	1.2	94

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163	Fluorescence Enhancement by Metal-Core/Silica-Shell Nanoparticles. Advanced Materials, 2006, 18, 91-95.	11.1	319
164	Characterization of Photonic Colloidal Single Crystals by Microradian X-ray Diffraction. Advanced Materials, 2006, 18, 1662-1666.	11.1	61
165	Prediction and Observation of Crystal Structures of Oppositely Charged Colloids. Physical Review Letters, 2006, 96, 138308.	2.9	81
166	CuAu Structure in the Restricted Primitive Model and Oppositely Charged Colloids. Physical Review Letters, 2006, 96, 018303.	2.9	92
167	Ionic colloidal crystals of oppositely charged particles. Nature, 2005, 437, 235-240.	13.7	902
168	Angle-Dependent Extinction of Anisotropic Silica/Au Core/Shell Colloids Made via Ion Irradiation. Advanced Materials, 2005, 17, 1484-1488.	11.1	38
169	Extended sedimentation profiles in charged colloids: the gravitational length, entropy, and electrostatics. Journal of Physics Condensed Matter, 2005, 17, 2315-2326.	0.7	52
170	Interfaceâ€“solvent effects during colloidal phase transitions. Journal of Physics Condensed Matter, 2005, 17, S3469-S3479.	0.7	31
171	Combined Optical Tweezers/Ion Beam Technique to Tune Colloidal Masks for Nanolithography. Nano Letters, 2005, 5, 1175-1179.	4.5	51
172	Synthesis of Colloidal Silica Dumbbells. Langmuir, 2005, 21, 11510-11517.	1.6	114
173	Reflectivity of metallodielectric photonic glasses. Physical Review B, 2004, 69, .	1.1	10
174	Nature of an Electric-Field-Induced Colloidal Martensitic Transition. Physical Review Letters, 2004, 92, 058301.	2.9	83
175	Epitaxial growth of a colloidal hard-sphere hcp crystal and the effects of epitaxial mismatch on crystal structure. Physical Review E, 2004, 69, 051602.	0.8	38
176	Optical tweezers and confocal microscopy for simultaneous three-dimensional manipulation and imaging in concentrated colloidal dispersions. Review of Scientific Instruments, 2004, 75, 2960-2970.	0.6	113
177	Confocal microscopy of colloidal dispersions in shear flow using a counter-rotating coneâ€“plate shear cell. Journal of Physics Condensed Matter, 2004, 16, S3917-S3927.	0.7	55
178	Three-dimensional silica-gold core-shell photonic crystal: linear reflection and ultrafast nonlinear optical properties. , 2004, , .		4
179	Colloids under External Control. MRS Bulletin, 2004, 29, 85-90.	1.7	79
180	Shaping colloidal assemblies. Materials Today, 2004, 7, 40-46.	8.3	45

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181	Aligned Gold Nanorods in Silica Made by Ion Irradiation of Coreâ€“Shell Colloidal Particles. Advanced Materials, 2004, 16, 235-237.	11.1	140
182	Large-Area Electric-Field-Induced Colloidal Single Crystals for Photonic Applications. Advanced Materials, 2004, 16, 596-600.	11.1	94
183	Template-Induced Growth of Close-Packed and Non-Close-Packed Colloidal Crystals during Solvent Evaporation. Nano Letters, 2004, 4, 205-208.	4.5	151
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