

Lennart Bergström

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204
papers

11,982
citations

57
h-index

104
g-index

215
ext. papers

13,477
ext. citations

7.2
avg, IF

6.82
L-index

#	Paper	IF	Citations
204	Thermally insulating and fire-retardant lightweight anisotropic foams based on nanocellulose and graphene oxide. <i>Nature Nanotechnology</i> , 2015 , 10, 277-83	28.7	820
203	Hamaker constants of inorganic materials. <i>Advances in Colloid and Interface Science</i> , 1997 , 70, 125-169	14.3	809
202	Pre-nucleation clusters as solute precursors in crystallisation. <i>Chemical Society Reviews</i> , 2014 , 43, 2348-738.5	38.5	557
201	Cellulose nanocrystal-based materials: from liquid crystal self-assembly and glass formation to multifunctional thin films. <i>NPG Asia Materials</i> , 2014 , 6, e80-e80	10.3	554
200	Novel Powder-Processing Methods for Advanced Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1557-1574	3.8	349
199	Nanocellulose-based foams and aerogels: processing, properties, and applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16105-16117	13	335
198	Understanding nanocellulose chirality and structure-properties relationship at the single fibril level. <i>Nature Communications</i> , 2015 , 6, 7564	17.4	290
197	Adsorbents for the post-combustion capture of CO ₂ using rapid temperature swing or vacuum swing adsorption. <i>Applied Energy</i> , 2013 , 104, 418-433	10.7	287
196	Nanocellulose-Based Materials for Water Purification. <i>Nanomaterials</i> , 2017 , 7,	5.4	255
195	Proto-calcite and proto-vaterite in amorphous calcium carbonates. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8889-91	16.4	232
194	Magnetic field-induced assembly of oriented superlattices from maghemite nanocubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17570-4	11.5	219
193	Structuring adsorbents and catalysts by processing of porous powders. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1643-1666	6	208
192	Dispersion and surface functionalization of oxide nanoparticles for transparent photocatalytic and UV-protecting coatings and sunscreens. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 023001	7.1	201
191	Consolidation Behavior of Flocculated Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 3305-3314	3.8	170
190	Lightweight and strong cellulose materials made from aqueous foams stabilized by nanofibrillated cellulose. <i>Biomacromolecules</i> , 2013 , 14, 503-11	6.9	150
189	Fire-Retardant and Thermally Insulating Phenolic-Silica Aerogels. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4538-4542	16.4	145
188	Surface chemistry of silicon nitride powders: Electrokinetic behaviour and ESCA studies. <i>Colloids and Surfaces</i> , 1990 , 49, 183-197		138

187	Rod Packing in Chiral Nematic Cellulose Nanocrystal Dispersions Studied by Small-Angle X-ray Scattering and Laser Diffraction. <i>Langmuir</i> , 2015 , 31, 6507-13	4	137
186	Anomalous magnetic properties of nanoparticles arising from defect structures: topotaxial oxidation of Fe(1-x)O Fe(3- γ)O ₄ core/shell nanocubes to single-phase particles. <i>ACS Nano</i> , 2013 , 7, 7132-44	16.7	133
185	Mesocrystals in Biominerals and Colloidal Arrays. <i>Accounts of Chemical Research</i> , 2015 , 48, 1391-402	24.3	129
184	Shape induced symmetry in self-assembled mesocrystals of iron oxide nanocubes. <i>Nano Letters</i> , 2011 , 11, 1651-6	11.5	126
183	Interfacial Characterization of Silicon Nitride Powders. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 103-109	3.8	124
182	Strong and binder free structured zeolite sorbents with very high CO ₂ -over-N ₂ selectivities and high capacities to adsorb CO ₂ rapidly. <i>Energy and Environmental Science</i> , 2012 , 5, 7664	35.4	122
181	Directional Freezing of Nanocellulose Dispersions Aligns the Rod-Like Particles and Produces Low-Density and Robust Particle Networks. <i>Biomacromolecules</i> , 2016 , 17, 1875-81	6.9	118
180	Acid-Free Preparation of Cellulose Nanocrystals by TEMPO Oxidation and Subsequent Cavitation. <i>Biomacromolecules</i> , 2018 , 19, 633-639	6.9	116
179	Macroscopic control of helix orientation in films dried from cholesteric liquid-crystalline cellulose nanocrystal suspensions. <i>ChemPhysChem</i> , 2014 , 15, 1477-84	3.2	112
178	The effect of polymer and surfactant adsorption on the colloidal stability and rheology of kaolin dispersions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 159, 197-208	5.1	106
177	Shear thinning and shear thickening of concentrated ceramic suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998 , 133, 151-155	5.1	105
176	Hamaker constants of iron oxide nanoparticles. <i>Langmuir</i> , 2011 , 27, 8659-64	4	93
175	Estimation of Hamaker Constants of Ceramic Materials from Optical Data Using Lifshitz Theory. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 339-348	3.8	92
174	Probing the effect of superplasticizer adsorption on the surface forces using the colloidal probe AFM technique. <i>Cement and Concrete Research</i> , 2005 , 35, 133-140	10.3	89
173	Quantitative spatial magnetization distribution in iron oxide nanocubes and nanospheres by polarized small-angle neutron scattering. <i>New Journal of Physics</i> , 2012 , 14, 013025	2.9	85
172	Superlubricity using repulsive van der Waals forces. <i>Langmuir</i> , 2008 , 24, 2274-6	4	83
171	A study of the sintering of diatomaceous earth to produce porous ceramic monoliths with bimodal porosity and high strength. <i>Powder Technology</i> , 2010 , 201, 253-257	5.2	79
170	Oxidation and dissolution of tungsten carbide powder in water. <i>International Journal of Refractory Metals and Hard Materials</i> , 2000 , 18, 121-129	4.1	79

169	Viscoelastic Properties of Particle Gels. <i>Journal of Colloid and Interface Science</i> , 1999 , 209, 162-172	9.3	79
168	Direct Measurement of Repulsive and Attractive van der Waals Forces between Inorganic Materials. <i>Langmuir</i> , 1997 , 13, 3896-3899	4	75
167	Tuning the Nanocellulose-Borate Interaction To Achieve Highly Flame Retardant Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 1985-1989	9.6	74
166	A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles. <i>Nanoscale</i> , 2011 , 3, 3563-6	7.7	74
165	Dissolution and Deagglomeration of Silicon Nitride in Aqueous Medium. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2394-400	3.8	74
164	Precise control over shape and size of iron oxide nanocrystals suitable for assembly into ordered particle arrays. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 055010	7.1	72
163	Preparation of Colloidal Monolayers of Alkoxylated Silica Particles at the Air-Liquid Interface. <i>Langmuir</i> , 1995 , 11, 394-397	4	71
162	Hard and transparent films formed by nanocellulose-TiO ₂ nanoparticle hybrids. <i>PLoS ONE</i> , 2012 , 7, e45838	3.7	70
161	Rheological Properties of Concentrated, Nonaqueous Silicon Nitride Suspensions. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3033-3040	3.8	70
160	Spectroscopic Ellipsometry Characterisation and Estimation of the Hamaker Constant of Cellulose. <i>Cellulose</i> , 1999 , 6, 1-13	5.5	66
159	Relating the molecular structure of comb-type superplasticizers to the compression rheology of MgO suspensions. <i>Cement and Concrete Research</i> , 2006 , 36, 1231-1239	10.3	65
158	Thermally Insulating Nanocellulose-Based Materials. <i>Advanced Materials</i> , 2021 , 33, e2001839	24	64
157	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe ₃ O ₄ nanoparticles as a case study. <i>Nanoscale</i> , 2015 , 7, 3002-15	7.7	63
156	Forces Measured between Zirconia Surfaces in Poly(acrylic acid) Solutions. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1137-1145	3.8	63
155	Proto-Calcite and Proto-Vaterite in Amorphous Calcium Carbonates. <i>Angewandte Chemie</i> , 2010 , 122, 9073-9075	3.6	61
154	Hierarchically Porous Ceramics from Diatomite Powders by Pulsed Current Processing. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 338-343	3.8	59
153	Multicolor fluorescent labeling of cellulose nanofibrils by click chemistry. <i>Biomacromolecules</i> , 2015 , 16, 1293-300	6.9	58
152	Electroacoustic and rheological properties of aqueous Ce-ZrO ₂ (Ce-TZP) suspensions. <i>Journal of the European Ceramic Society</i> , 1997 , 17, 537-548	6	58

151	Sedimentation of flocculated alumina suspensions: Ray measurements and comparison with model predictions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 3201-3211		58
150	Superlattice growth and rearrangement during evaporation-induced nanoparticle self-assembly. <i>Scientific Reports</i> , 2017 , 7, 2802	4.9	57
149	Laminated adsorbents with very rapid CO ₂ uptake by freeze-casting of zeolites. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2669-76	9.5	57
148	Elastic Aerogels of Cellulose Nanofibers@Metal-Organic Frameworks for Thermal Insulation and Fire Retardancy. <i>Nano-Micro Letters</i> , 2019 , 12, 9	19.5	57
147	Coated polystyrene particles as templates for ordered macroporous silica structures with controlled wall thickness. <i>Journal of Materials Chemistry</i> , 2003 , 13, 496-501		56
146	Structural features and adsorption behaviour of mesoporous silica particles formed from droplets generated in a spraying chamber. <i>Microporous and Mesoporous Materials</i> , 2004 , 72, 175-183	5.3	54
145	Evaluation of Surface Ionization Parameters from AFM Data. <i>Journal of Colloid and Interface Science</i> , 1998 , 207, 332-343	9.3	53
144	Stabilizing ceramic suspensions using anionic polyelectrolytes: adsorption kinetics and interparticle forces. <i>Acta Materialia</i> , 2000 , 48, 4563-4570	8.4	53
143	The effect of anionic polyelectrolytes on the properties of aqueous silicon nitride suspensions. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 431-440	6	53
142	Preparation of cellulose nanofibers using green and sustainable chemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018 , 12, 15-21	7.9	50
141	Temperature induced gelation of concentrated ceramic suspensions: rheological properties. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 2117-2123	6	49
140	Following in Real Time the Two-Step Assembly of Nanoparticles into Mesocrystals in Levitating Drops. <i>Nano Letters</i> , 2016 , 16, 6838-6843	11.5	48
139	Colloidal processing and CO ₂ capture performance of sacrificially templated zeolite monoliths. <i>Applied Energy</i> , 2012 , 97, 289-296	10.7	48
138	Strong hierarchically porous monoliths by pulsed current processing of zeolite powder assemblies. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 732-7	9.5	48
137	Improved enzymatic activity of <i>Thermomyces lanuginosus</i> lipase immobilized in a hydrophobic particulate mesoporous carrier. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 359-65	9.3	48
136	WO ₃ nanorods created by self-assembly of highly crystalline nanowires under hydrothermal conditions. <i>Langmuir</i> , 2014 , 30, 10487-92	4	47
135	Structural diversity in iron oxide nanoparticle assemblies as directed by particle morphology and orientation. <i>Nanoscale</i> , 2013 , 5, 3969-75	7.7	46
134	Stress development during drying of calcium carbonate suspensions containing carboxymethylcellulose and latex particles. <i>Journal of Colloid and Interface Science</i> , 2004 , 272, 1-9	9.3	46

133	Effect of Electrolyte and Evaporation Rate on the Structural Features of Dried Silica Monolayer Films. <i>Langmuir</i> , 2002 , 18, 9327-9333	4	45
132	Mechanical performance and CO ₂ uptake of ion-exchanged zeolite A structured by freeze-casting. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2607-2618	6	44
131	Gas-filled microspheres as an expandable sacrificial template for direct casting of complex-shaped macroporous ceramics. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 2815-2821	6	44
130	Meso/Macroporous, Mechanically Stable Silica Monoliths of Complex Shape by Controlled Fusion of Mesoporous Spherical Particles. <i>Chemistry of Materials</i> , 2006 , 18, 4933-4938	9.6	44
129	Colloidal Processing and Thermal Treatment of Binderless Hierarchically Porous Zeolite 13X Monoliths for CO ₂ Capture. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 92-98	3.8	43
128	Spray drying of TiO ₂ nanoparticles into redispersible granules. <i>Powder Technology</i> , 2010 , 203, 384-388	5.2	42
127	Colloidal processing of Al ₂ O ₃ -based composites reinforced with TiN and TiC particulates, whiskers and nanoparticles. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1027-1035	6	42
126	The effect of acids and bases on the dispersion and stabilization of ceramic particles in ethanol. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 659-665	6	42
125	Transparent and Flexible Nacre-Like Hybrid Films of Aminoclays and Carboxylated Cellulose Nanofibrils. <i>Advanced Functional Materials</i> , 2018 , 28, 1703277	15.6	41
124	Tuning the Aspect Ratio of Ceria Nanorods and Nanodumbbells by a Face-Specific Growth and Dissolution Process. <i>Crystal Growth and Design</i> , 2008 , 8, 1798-1800	3.5	40
123	2D to 3D crossover of the magnetic properties in ordered arrays of iron oxide nanocrystals. <i>Nanoscale</i> , 2013 , 5, 953-60	7.7	38
122	Preparation of iron oxide nanocrystals by surfactant-free or oleic acid-assisted thermal decomposition of a Fe(III) alkoxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 781-787	2.8	38
121	The Rheology of Cementitious Materials. <i>MRS Bulletin</i> , 2004 , 29, 314-318	3.2	38
120	Nanocellulose-Zeolite Composite Films for Odor Elimination. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14254-62	9.5	35
119	Maghemite nanocrystal impregnation by hydrophobic surface modification of mesoporous silica. <i>Langmuir</i> , 2007 , 23, 8838-44	4	35
118	Stabilizing nanocellulose-nonionic surfactant composite foams by delayed Ca-induced gelation. <i>Journal of Colloid and Interface Science</i> , 2016 , 472, 44-51	9.3	34
117	Confined self-assembly of cellulose nanocrystals in a shrinking droplet. <i>Soft Matter</i> , 2015 , 11, 5374-80	3.6	34
116	Electrostatic Stabilization of Ultrafine Titania in Ethanol. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 523-528	3.8	34

115	Effect of Magnesium Ions on the Adsorption of Poly(acrylic acid) onto Alumina. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2710-2712	3.8	34
114	Rheological properties of Al ₂ O ₃ -SiC whisker composite suspensions. <i>Journal of Materials Science</i> , 1996 , 31, 5257-5270	4.3	33
113	Mesoporous hydrogels: revealing reversible porosity by cryoporometry, X-ray scattering, and gas adsorption. <i>Langmuir</i> , 2010 , 26, 10158-64	4	32
112	Photochromic mesostructured silica pigments dispersed in latex films. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3507		32
111	A membrane-reconstituted multisubunit functional proton pump on mesoporous silica particles. <i>ACS Nano</i> , 2009 , 3, 2639-46	16.7	31
110	Silicon Nitride Colloidal Probe Measurements: Interparticle Forces and the Role of Surface-Segment Interactions in Poly(acrylic acid) Adsorption from Aqueous Solution. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1675-1682	3.8	31
109	Omnidispersible poly(ionic liquid)-functionalized cellulose nanofibrils: surface grafting and polymer membrane reinforcement. <i>Chemical Communications</i> , 2014 , 50, 12486-9	5.8	29
108	Soluble organic additive effects on stress development during drying of calcium carbonate suspensions. <i>Journal of Colloid and Interface Science</i> , 2005 , 290, 134-44	9.3	29
107	Dispersing Multi-Component and Unstable Powders in Aqueous Media Using Comb-Type Anionic Polymers*. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1847-1852	3.8	27
106	Impact of Cross-Linking Density and Glassy Chain Dynamics on Pore Stability in Mesoporous Poly(styrene). <i>Macromolecules</i> , 2009 , 42, 8234-8240	5.5	26
105	Release and molecular transport of cationic and anionic fluorescent molecules in mesoporous silica spheres. <i>Langmuir</i> , 2008 , 24, 11096-102	4	26
104	Influence of chemical pretreatment on the surface properties of silicon nitride powder. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 158, 327-341	5.1	26
103	Nanoscale Assembly of Cellulose Nanocrystals during Drying and Redispersion. <i>ACS Macro Letters</i> , 2018 , 7, 172-177	6.6	25
102	Thermal conductivity of hygroscopic foams based on cellulose nanofibrils and a nonionic polyoxamer. <i>Cellulose</i> , 2018 , 25, 1117-1126	5.5	25
101	Dynamic growth modes of ordered arrays and mesocrystals during drop-casting of iron oxide nanocubes. <i>CrystEngComm</i> , 2014 , 16, 1443-1450	3.3	25
100	Mössbauer and magnetization studies of iron oxide nanocrystals. <i>Hyperfine Interactions</i> , 2008 , 183, 49-53	0.8	25
99	Surface and solution chemistry studies on galena suspensions. <i>Colloids and Surfaces</i> , 1986 , 19, 1-20		25
98	Antioxidant and UV-Blocking Leather-Inspired Nanocellulose-Based Films with High Wet Strength. <i>Biomacromolecules</i> , 2020 , 21, 1720-1728	6.9	24

97	Hierarchically porous binder-free silicalite-1 discs: a novel support for all-zeolite membranes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8822		24
96	A CaCO ₃ /nanocellulose-based bioinspired nacre-like material. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16128-16133	13	23
95	Permeability, pore connectivity and critical pore throat control of expandable polymeric sphere templated macroporous alumina. <i>Acta Materialia</i> , 2011 , 59, 1239-1248	8.4	23
94	Controlling the Assembly of Nanocrystalline ZnO Films by a Transient Amorphous Phase in Solution. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5373-5383	3.8	23
93	Colloidal aspects relating to direct incorporation of TiO ₂ nanoparticles into mesoporous spheres by an aerosol-assisted process. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 144-51	9.3	23
92	Dispersing WC ₁₂ O powders in aqueous media with polyethylenimine. <i>International Journal of Refractory Metals and Hard Materials</i> , 2000 , 18, 281-286	4.1	23
91	Dissolution Kinetics of Silicon Nitride in Aqueous Suspension. <i>Journal of Colloid and Interface Science</i> , 1999 , 218, 582-584	9.3	23
90	The uptake of Mg(II) on ultrafine silicon carbide and alumina. <i>Journal of Colloid and Interface Science</i> , 1988 , 124, 570-580	9.3	23
89	Dielectric properties of lignin and glucomannan as determined by spectroscopic ellipsometry and Lifshitz estimates of non-retarded Hamaker constants. <i>Cellulose</i> , 2013 , 20, 1639-1648	5.5	22
88	Three-dimensional structure analysis by X-ray micro-computed tomography of macroporous alumina templated with expandable microspheres. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2547-2554	6	22
87	DLVO interactions of tungsten oxide and cobalt oxide surfaces measured with the colloidal probe technique. <i>Journal of Colloid and Interface Science</i> , 2002 , 246, 309-15	9.3	22
86	Structural Characterization of Dense Colloidal Films Using a Modified Pair Distribution Function and Delaunay Triangulation. <i>Langmuir</i> , 2001 , 17, 4867-4875	4	22
85	Tuning the structure and habit of iron oxide mesocrystals. <i>Nanoscale</i> , 2016 , 8, 15571-80	7.7	21
84	Labelling of N-hydroxysuccinimide-modified rhodamine B on cellulose nanofibrils by the amidation reaction. <i>RSC Advances</i> , 2014 , 4, 60757-60761	3.7	21
83	Methylcellulose-Directed Synthesis of Nanocrystalline Zeolite NaA with High CO ₂ Uptake. <i>Materials</i> , 2014 , 7, 5507-5519	3.5	21
82	Temporal Evolution of Superlattice Contraction and Defect-Induced Strain Anisotropy in Mesocrystals during Nanocube Self-Assembly. <i>ACS Nano</i> , 2020 , 14, 5337-5347	16.7	20
81	Dual-Fiber Approach toward Flexible Multifunctional Hybrid Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1704274	15.6	20
80	Local Crystallinity in Twisted Cellulose Nanofibers. <i>ACS Nano</i> , 2021 , 15, 2730-2737	16.7	19

79	Assembly of cellulose nanocrystals in a levitating drop probed by time-resolved small angle X-ray scattering. <i>Nanoscale</i> , 2018 , 10, 18113-18118	7.7	19
78	Aluminophosphate monoliths with high CO ₂ -over-N ₂ selectivity and CO ₂ capture capacity. <i>RSC Advances</i> , 2014 , 4, 55877-55883	3.7	18
77	Drying of oil-in-water emulsions on hydrophobic and hydrophilic substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 233, 155-161	5.1	18
76	Perikinetic Aggregation of Alkoxylated Silica Particles in Two Dimensions. <i>Journal of Colloid and Interface Science</i> , 1999 , 218, 77-87	9.3	17
75	Preparation of graded silicalite-1 substrates for all-zeolite membranes with excellent CO ₂ /H ₂ separation performance. <i>Journal of Membrane Science</i> , 2015 , 493, 206-211	9.6	16
74	Orthokinetic Aggregation in Two Dimensions of Monodisperse and Bidisperse Colloidal Systems. <i>Journal of Colloid and Interface Science</i> , 1999 , 220, 269-280	9.3	16
73	Surface chemistry of silicon nitride powders: Adsorption from non-aqueous solutions. <i>Colloids and Surfaces</i> , 1992 , 69, 53-64		16
72	Tunable assembly of truncated nanocubes by evaporation-driven poor-solvent enrichment. <i>Nature Communications</i> , 2019 , 10, 4228	17.4	15
71	Assembly, Gelation, and Helicoidal Consolidation of Nanocellulose Dispersions. <i>Langmuir</i> , 2019 , 35, 3600-3606	17.4	15
70	Phase identification and structure solution by three-dimensional electron diffraction tomography: Gd-phosphate nanorods. <i>Inorganic Chemistry</i> , 2014 , 53, 5067-72	5.1	15
69	Embedded proteins and sacrificial bonds provide the strong adhesive properties of gastroliths. <i>Nanoscale</i> , 2012 , 4, 3910-6	7.7	15
68	Mechanism of traditional Bogolan dyeing technique with clay on cotton fabric. <i>Applied Clay Science</i> , 2010 , 50, 455-460	5.2	15
67	Rapid detection of trace amounts of surfactants using nanoparticles in fluorometric assays. <i>Nanoscale</i> , 2010 , 2, 69-71	7.7	15
66	Steady-shear and viscoelastic properties of cellulose nanofibril/nanoclay dispersions. <i>Cellulose</i> , 2017 , 24, 1815-1824	5.5	14
65	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. <i>Biomacromolecules</i> , 2020 , 21, 2536-2540	6.9	14
64	Silicon nitride granule friction measurements with an atomic force microscope: effect of humidity and binder concentration. <i>Powder Technology</i> , 2001 , 119, 241-249	5.2	14
63	3D Printing of Strong Lightweight Cellular Structures Using Polysaccharide-Based Composite Foams. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 17160-17167	8.3	14
62	Controlling Orientational and Translational Order of Iron Oxide Nanocubes by Assembly in Nanofluidic Containers. <i>Langmuir</i> , 2015 , 31, 12537-43	4	13

61	Unravelling the Hydration Barrier of Lignin Oleate Nanoparticles for Acid- and Base-Catalyzed Functionalization in Dispersion State. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20897-20905	16.4	13
60	Application of charge regulation model for evaluation of surface ionization parameters from atomic force microscopy (AFM) data. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 164, 3-7	5.1	12
59	Probing Polymeric Stabilization in Nonaqueous Media by Direct Measurements. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 217-19	3.8	12
58	Following the Assembly of Iron Oxide Nanocubes by Video Microscopy and Quartz Crystal Microbalance with Dissipation Monitoring. <i>Langmuir</i> , 2017 , 33, 303-310	4	11
57	Strong discs of activated carbons from hydrothermally carbonized beer waste. <i>Carbon</i> , 2014 , 78, 521-531	10.4	11
56	Probing planar defects in nanoparticle superlattices by 3D small-angle electron diffraction tomography and real space imaging. <i>Nanoscale</i> , 2014 , 6, 13803-8	7.7	11
55	Deposition of silica nanoparticles onto alumina measured by optical reflectometry and quartz crystal microbalance with dissipation techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 443, 384-390	5.1	11
54	Functionalization and patterning of nanocellulose films by surface-bound nanoparticles of hydrolyzable tannins and multivalent metal ions. <i>Nanoscale</i> , 2019 , 11, 19278-19284	7.7	10
53	Phase transitions and thermodynamic properties of dense assemblies of truncated nanocubes and cuboctahedra. <i>Nanoscale</i> , 2012 , 4, 4765-71	7.7	10
52	The effect of temperature on the pulsed current processing behaviour and structural characteristics of porous ZSM-5 and zeolite Y monoliths. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2977-2983	6	9
51	Effect of the Cobalt Ion and Polyethyleneimine Adsorption on the Surface Forces between Tungsten Oxide and Cobalt Oxide in Aqueous Media. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2404-2408	3.8	9
50	Strong silica-nanocellulose anisotropic composite foams combine low thermal conductivity and low moisture uptake. <i>Cellulose</i> , 2020 , 27, 10825-10836	5.5	8
49	Time-resolved viscoelastic properties of self-assembling iron oxide nanocube superlattices probed by quartz crystal microbalance with dissipation monitoring. <i>Journal of Colloid and Interface Science</i> , 2018 , 522, 104-110	9.3	8
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