

Nicolas Vogel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

4,275
citations

31
h-index

63
g-index

120
ext. papers

5,123
ext. citations

9.4
avg, IF

5.89
L-index

#	Paper	IF	Citations
110	Advances in colloidal assembly: the design of structure and hierarchy in two and three dimensions. <i>Chemical Reviews</i> , 2015 , 115, 6265-311	68.1	505
109	Transparency and damage tolerance of patternable omniphobic lubricated surfaces based on inverse colloidal monolayers. <i>Nature Communications</i> , 2013 , 4, 2167	17.4	280
108	Preventing mussel adhesion using lubricant-infused materials. <i>Science</i> , 2017 , 357, 668-673	33.3	252
107	A colloidoscope of colloid-based porous materials and their uses. <i>Chemical Society Reviews</i> , 2016 , 45, 281-322	58.5	211
106	A Convenient Method to Produce Close- and Non-close-Packed Monolayers using Direct Assembly at the Air/Water Interface and Subsequent Plasma-Induced Size Reduction. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 1719-1734	2.6	197
105	Color from hierarchy: Diverse optical properties of micron-sized spherical colloidal assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10845-50	11.5	191
104	Lubricant-Infused Nanoparticulate Coatings Assembled by Layer-by-Layer Deposition. <i>Advanced Functional Materials</i> , 2014 , 24, 6658-6667	15.6	173
103	From soft to hard: the generation of functional and complex colloidal monolayers for nanolithography. <i>Soft Matter</i> , 2012 , 8, 4044-4061	3.6	161
102	Bioinspired Photonic Pigments from Colloidal Self-Assembly. <i>Advanced Materials</i> , 2018 , 30, e1706654	24	137
101	Wafer-Scale Fabrication of Ordered Binary Colloidal Monolayers with Adjustable Stoichiometries. <i>Advanced Functional Materials</i> , 2011 , 21, 3064-3073	15.6	132
100	Supraparticles: Functionality from Uniform Structural Motifs. <i>ACS Nano</i> , 2018 , 12, 5093-5120	16.7	116
99	Transparent antifouling material for improved operative field visibility in endoscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11676-11681	11.5	83
98	Ordered arrays of gold nanostructures from interfacially assembled Au@PNIPAM hybrid nanoparticles. <i>Langmuir</i> , 2012 , 28, 8985-93	4	75
97	As flat as it gets: ultrasmooth surfaces from template-stripping procedures. <i>Nanoscale</i> , 2012 , 4, 3820-327.7		73
96	Plasmon hybridization in stacked double crescents arrays fabricated by colloidal lithography. <i>Nano Letters</i> , 2011 , 11, 446-54	11.5	72
95	Tunable Anisotropy in Inverse Opals and Emerging Optical Properties. <i>Chemistry of Materials</i> , 2014 , 26, 1622-1628	9.6	67
94	Magic number colloidal clusters as minimum free energy structures. <i>Nature Communications</i> , 2018 , 9, 5259	17.4	67

93	Role of Flagella in Adhesion of Escherichia coli to Abiotic Surfaces. <i>Langmuir</i> , 2015 , 31, 6137-44	4	62
92	Combining Bottom-Up Self-Assembly with Top-Down Microfabrication to Create Hierarchical Inverse Opals with High Structural Order. <i>Small</i> , 2015 , 11, 4334-40	11	56
91	Reusable localized surface plasmon sensors based on ultrastable nanostructures. <i>Small</i> , 2010 , 6, 104-9	11	50
90	Tailoring re-entrant geometry in inverse colloidal monolayers to control surface wettability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6853-6859	13	49
89	Interfacial arrangement and phase transitions of PNIPAm microgels with different crosslinking densities. <i>Soft Matter</i> , 2017 , 13, 8717-8727	3.6	48
88	Poly-isopropylacrylamide Nanogels and Microgels at Fluid Interfaces. <i>Accounts of Chemical Research</i> , 2020 , 53, 414-424	24.3	46
87	Anisotropic Self-Assembly from Isotropic Colloidal Building Blocks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17464-17473	16.4	43
86	Direct visualization of the interfacial position of colloidal particles and their assemblies. <i>Nanoscale</i> , 2014 , 6, 6879-85	7.7	43
85	Plasmon hybridization and strong near-field enhancements in opposing nanocrescent dimers with tunable resonances. <i>Nanoscale</i> , 2011 , 3, 4788-97	7.7	38
84	Stimuli-Responsive Behavior of PNIPAm Microgels under Interfacial Confinement. <i>Langmuir</i> , 2019 , 35, 10512-10521	4	37
83	Chiral Surface Lattice Resonances. <i>Advanced Materials</i> , 2020 , 32, e2001330	24	34
82	Controlled Synthesis of Reactive Polymeric Architectures Using 5-Norbornene-2-carboxylic Acid Pentafluorophenyl Ester. <i>Macromolecular Symposia</i> , 2007 , 249-250, 383-391	0.8	33
81	The Optical Janus Effect: Asymmetric Structural Color Reflection Materials. <i>Advanced Materials</i> , 2017 , 29, 1606876	24	32
80	Structural Color of Colloidal Clusters as a Tool to Investigate Structure and Dynamics. <i>Advanced Functional Materials</i> , 2020 , 30, 1907730	15.6	32
79	Smart Optical Composite Materials: Dispersions of Metal-Organic Framework@Superparamagnetic Microrods for Switchable Isotropic-Anisotropic Optical Properties. <i>ACS Nano</i> , 2017 , 11, 779-787	16.7	31
78	A self-assembled metamaterial for Lamb waves. <i>Applied Physics Letters</i> , 2015 , 107, 071903	3.4	30
77	Surface Patterning with SiO@PNIPAm Core-Shell Particles. <i>ACS Omega</i> , 2018 , 3, 12089-12098	3.9	28
76	Probing guided modes in a monolayer colloidal crystal on a flat metal film. <i>Physical Review B</i> , 2012 , 86,	3.3	27

75	Directional wetting in anisotropic inverse opals. <i>Langmuir</i> , 2014 , 30, 7615-20	4	26
74	A Dirty Story: Improving Colloidal Monolayer Formation by Understanding the Effect of Impurities at the Air/Water Interface. <i>Langmuir</i> , 2019 , 35, 95-103	4	26
73	Particle Monolayer-Stabilized Light-Sensitive Liquid Marbles from Polypyrrole-Coated Microparticles. <i>Langmuir</i> , 2020 , 36, 2695-2706	4	25
72	Hierarchical Design of Metal Micro/Nanohole Array Films Optimizes Transparency and Haze Factor. <i>Advanced Functional Materials</i> , 2018 , 28, 1706965	15.6	25
71	Magnetic Polymer/Nickel Hybrid Nanoparticles Via Miniemulsion Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2213-2222	2.6	25
70	Morphology-Graded Silicon Nanowire Arrays via Chemical Etching: Engineering Optical Properties at the Nanoscale and Macroscale. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13140-13147	9.5	24
69	Hierarchical structural control of visual properties in self-assembled photonic-plasmonic pigments. <i>Optics Express</i> , 2014 , 22, 27750-68	3.3	24
68	Arrays of size and distance controlled platinum nanoparticles fabricated by a colloidal method. <i>Nanoscale</i> , 2011 , 3, 2523-8	7.7	24
67	Ionic-Liquid-Infused Nanostructures as Repellent Surfaces. <i>Langmuir</i> , 2018 , 34, 6894-6902	4	22
66	Engineered disorder and light propagation in a planar photonic glass. <i>Scientific Reports</i> , 2016 , 6, 27264	4.9	22
65	Large-Scale Synthesis of Highly Uniform Silicon Nanowire Arrays Using Metal-Assisted Chemical Etching. <i>Chemistry of Materials</i> , 2020 , 32, 9425-9434	9.6	22
64	Free Energy Landscape of Colloidal Clusters in Spherical Confinement. <i>ACS Nano</i> , 2019 , 13, 9005-9015	16.7	21
63	Multiband Hypersound Filtering in Two-Dimensional Colloidal Crystals: Adhesion, Resonances, and Periodicity. <i>Nano Letters</i> , 2020 , 20, 1883-1889	11.5	20
62	Amphiphile-Induced Anisotropic Colloidal Self-Assembly. <i>Langmuir</i> , 2018 , 34, 9990-10000	4	20
61	Accurate Elemental Analysis of Metal-Containing Polymer Latexes Using ICP-Optical Emission Spectrometry. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1355-1368	2.6	20
60	Effect of Stabilizing Particle Size on the Structure and Properties of Liquid Marbles. <i>Langmuir</i> , 2020 , 36, 13274-13284	4	20
59	Formation of Highly Ordered Alloy Nanoparticles Based on Precursor-Filled Latex Spheres. <i>Chemistry of Materials</i> , 2012 , 24, 1048-1054	9.6	19
58	Nanoscale patterning of solid-supported membranes by integrated diffusion barriers. <i>Langmuir</i> , 2011 , 27, 7008-15	4	19

57	Laterally patterned ultraflat surfaces. <i>Small</i> , 2009 , 5, 821-5	11	19
56	Dewetted Au Nanoparticles on TiO ₂ Surfaces: Evidence of a Size-Independent Plasmonic Photoelectrochemical Response. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16934-16942	3.8	18
55	Online Monitoring of Styrene Polymerization in Miniemulsion by Hyperpolarized ¹²⁹ Xenon NMR Spectroscopy. <i>Macromolecules</i> , 2012 , 45, 1839-1846	5.5	18
54	The Beginner's Guide to Chiral Plasmonics: Mostly Harmless Theory and the Design of Large-Area Substrates. <i>Advanced Optical Materials</i> , 2021 , 9, 2100378	8.1	16
53	Bottom-Up Design of Composite Supraparticles for Powder-Based Additive Manufacturing. <i>Small</i> , 2020 , 16, e2002076	11	14
52	Large-Area 3D Plasmonic Crescents with Tunable Chirality. <i>Advanced Optical Materials</i> , 2019 , 7, 18017708.1	11	12
51	Pattern formation in two-dimensional hard-core/soft-shell systems with variable soft shell profiles. <i>Soft Matter</i> , 2020 , 16, 3564-3573	3.6	12
50	Interfacial activity of metal β-diketonato complexes: in situ generation of amphiphiles by water coordination. <i>Langmuir</i> , 2011 , 27, 8044-53	4	12
49	Characterization of gold films by surface plasmon spectroscopy: Large errors and small consequences. <i>Surface Science</i> , 2009 , 603, 491-497	1.8	12
48	Platinum nanoparticles from size adjusted functional colloidal particles generated by a seeded emulsion polymerization process. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 459-72	3	11
47	Wetting-Controlled Localized Placement of Surface Functionalities within Nanopores. <i>Small</i> , 2020 , 16, e1906463	11	10
46	Nanoimprint Lithography Facilitated Plasmonic-Photonic Coupling for Enhanced Photoconductivity and Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2105054	15.6	10
45	Particulate Coatings with Optimized Haze Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1806025	15.6	10
44	Bottom-Up Assembly of Silica and Bioactive Glass Supraparticles with Tunable Hierarchical Porosity. <i>Langmuir</i> , 2018 , 34, 2063-2072	4	9
43	Ordered nanopore arrays with large interpore distances via one-step anodization. <i>Nanoscale</i> , 2018 , 10, 8385-8390	7.7	9
42	Addressing the plasmonic hotspot region by site-specific functionalization of nanostructures. <i>Nanoscale Advances</i> , 2020 , 2, 394-400	5.1	9
41	Laser-Activated Self-Assembled Thermoplasmonic Nanocavity Substrates for Intracellular Delivery.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1793-1799	4.1	9
40	Three-Dimensional Electrochemical Axial Lithography on Si Micro- and Nanowire Arrays. <i>Nano Letters</i> , 2018 , 18, 7343-7349	11.5	9

39	Soft Particles at Liquid Interfaces: From Molecular Particle Architecture to Collective Phase Behavior. <i>Langmuir</i> , 2021 , 37, 5364-5375	4	8
38	Anisotropic silicon nanowire arrays fabricated by colloidal lithography. <i>Nanoscale Advances</i> , 2021 , 3, 3634-36428		
37	Template-free structuring of colloidal hetero-monolayers by inkjet printing and particle floating. <i>Soft Matter</i> , 2010 , 6, 2403	3.6	7
36	Mechanics of colloidal supraparticles under compression. <i>Science Advances</i> , 2021 , 7, eabj0954	14.3	7
35	Evidence of Spatially Inhomogeneous Electron Temperature in a Resonantly Excited Array of Bow-Tie Nanoantennas. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12429-12436	3.8	6
34	On the Size-Determining Role of the Comonomer in the Nucleation and Growth of Cationic Polystyrene Latex via Emulsion Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700457	2.6	6
33	Tailored Double Emulsions Made Simple. <i>Advanced Materials</i> , 2021 , e2107338	24	6
32	Longitudinal eigenvibration of multilayer colloidal crystals and the effect of nanoscale contact bridges. <i>Nanoscale</i> , 2019 , 11, 5655-5665	7.7	6
31	Cell Interactions with Size-Controlled Colloidal Monolayers: Toward Improved Coatings in Bone Tissue Engineering. <i>Langmuir</i> , 2020 , 36, 1793-1803	4	5
30	Switching light with light--advanced functional colloidal monolayers. <i>Nanoscale</i> , 2014 , 6, 492-502	7.7	5
29	Effect of Asymmetry on Plasmon Hybridization and Sensing Capacities of Hole-Disk Arrays. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2609-2618	3.8	5
28	Probing particle heteroaggregation using analytical centrifugation. <i>Soft Matter</i> , 2020 , 16, 3407-3415	3.6	4
27	Surface-Plasmon- and Green-Light-Induced Polymerization in Mesoporous Thin Silica Films. <i>Langmuir</i> , 2020 , 36, 1671-1679	4	4
26	Defined core-shell particles as the key to complex interfacial self-assembly.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
25	Silica/TiO ₂ hybrids for structurally robust inverse opals with controllable refractive index. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 109-116	7.1	4
24	Diffusion of Gold Nanoparticles in Inverse Opals Probed by Heterodyne Dynamic Light Scattering. <i>Transport in Porous Media</i> , 2020 , 131, 723-737	3.1	4
23	Solid state interdigitated SbS based TiO nanotube solar cells.. <i>RSC Advances</i> , 2020 , 10, 28225-28231	3.7	4
22	Synthesis of Millimeter-sized Polymer Particles by Seeded Polymerization and Their Use as Shape-designable Liquid Marble Stabilizer. <i>Chemistry Letters</i> , 2020 , 49, 1282-1285	1.7	4

21	Dispersion-based, scalable fabrication of repellent superhydrophobic and liquid-infused coatings under ambient conditions. <i>Green Chemistry</i> , 2022 , 24, 3009-3016	10	4
20	Influence of Surfactant-Mediated Interparticle Contacts on the Mechanical Stability of Supraparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23445-23456	3.8	3
19	Metallic nanoparticle-on-mirror: Multiple-band light harvesting and efficient photocurrent generation under visible light irradiation. <i>Nano Energy</i> , 2021 , 90, 106609	17.1	3
18	Spatioselective Deposition of Passivating and Electrocatalytic Layers on Silicon Nanowire Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52581-52587	9.5	3
17	Roughly Spherical: Tailored PMMA-SiO Composite Supraparticles with Optimized Powder Flowability for Additive Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25334-25345	9.5	3
16	Substrate-Independent Design of Liquid-Infused Slippery Surfaces via Mussel-Inspired Chemistry. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100156	4.6	3
15	Probing sedimentation non-ideality of particulate systems using analytical centrifugation. <i>Soft Matter</i> , 2021 , 17, 2803-2814	3.6	3
14	Enduring liquid repellency through slippery ionic liquid-infused organogels. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2357-2366	13	3
13	Collapse-induced phase transitions in binary interfacial microgel monolayers. <i>Soft Matter</i> , 2021 , 17, 4504-4516	3.45	3
12	Scale-Bridging 3D-Analysis of Colloidal Clusters Using 360° Electron Tomography and X-Ray Nano-CT. <i>Microscopy and Microanalysis</i> , 2019 , 25, 392-393	0.5	2
11	Cyanate Ester Resins as Thermally Stable Adhesives for PEEK145-164		2
10	Versatile strategy for homogeneous drying patterns of dispersed particles. <i>Nature Communications</i> , 2022 , 13,	17.4	2
9	Chiral Materials: Chiral Surface Lattice Resonances (Adv. Mater. 22/2020). <i>Advanced Materials</i> , 2020 , 32, 2070173	24	1
8	Interplay of Mie and Bragg resonances in partly ordered monolayers of colloidal spheres 2012 ,		1
7	Simultaneous Nanolocal Polymer and Readout Unit Placement in Mesoporous Separation Layers. <i>Analytical Chemistry</i> , 2021 , 93, 5394-5402	7.8	1
6	A Self-Ordered Nanostructured Transparent Electrode of High Structural Quality and Corresponding Functional Performance. <i>Small</i> , 2021 , 17, e2100487	11	1
5	Interface-induced hysteretic volume phase transition of microgels: simulation and experiment. <i>Soft Matter</i> , 2021 , 17, 5581-5589	3.6	1
4	Materials with Hierarchical Porosity Enhance the Stability of Infused Ionic Liquid Films. <i>ACS Omega</i> , 2021 , 6, 20956-20965	3.9	0

3	Experimental Section. <i>Springer Theses</i> , 2012 , 207-226	0.1
2	Boxes fabricated from plate-stabilized liquid marbles. <i>Materials Advances</i> , 2021 , 2, 4604-4609	3.3
1	-Methyl-2-pyrrolidone as a Reaction Medium for Gold(III)-Ion Reduction and Star-like Gold Nanostructure Formation.. <i>ACS Omega</i> , 2022 , 7, 9484-9495	3.9