

Michael Maas

List of Publications by Year in descending order

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51
papers

1,403
citations

430874

18
h-index

330143

37
g-index

55
all docs

55
docs citations

55
times ranked

2523
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal capsules: nano- and microcapsules with colloidal particle shells. <i>Chemical Society Reviews</i> , 2017, 46, 2091-2126.	38.1	246
2	Bactericidal Activity of Partially Oxidized Nanodiamonds. <i>ACS Nano</i> , 2014, 8, 6475-6483.	14.6	184
3	Carbon Nanomaterials as Antibacterial Colloids. <i>Materials</i> , 2016, 9, 617.	2.9	89
4	Preparation of Mineralized Nanofibers: Collagen Fibrils Containing Calcium Phosphate. <i>Nano Letters</i> , 2011, 11, 1383-1388.	9.1	71
5	Enhancing Cellular Uptake and Doxorubicin Delivery of Mesoporous Silica Nanoparticles via Surface Functionalization: Effects of Serum. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26880-26891.	8.0	69
6	Edible high internal phase Pickering emulsion with double-emulsion morphology. <i>Food Hydrocolloids</i> , 2021, 111, 106405.	10.7	53
7	Bifunctional Submicron Colloidosomes Coassembled from Fluorescent and Superparamagnetic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 118-123.	13.8	49
8	Synthesis Route for the Self-Assembly of Submicrometer-Sized Colloidosomes with Tailorable Nanopores. <i>Chemistry of Materials</i> , 2013, 25, 3464-3471.	6.7	47
9	Coacervate-directed synthesis of CaCO ₃ microcarriers for pH-responsive delivery of biomolecules. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7725-7731.	5.8	39
10	An evaluation of colloidal and crystalline properties of CaCO ₃ nanoparticles for biological applications. <i>Materials Science and Engineering C</i> , 2017, 78, 305-314.	7.3	39
11	The contribution of rheology for designing hydroxyapatite biomaterials. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 585-593.	7.4	30
12	In Situ Observation of ⁵⁷ Fe ₂ O ₃ Nanoparticle Adsorption under Different Monolayers at the Air/Water Interface. <i>Langmuir</i> , 2008, 24, 12958-12962.	3.5	26
13	A critical study: Assessment of the effect of silica particles from 15 to 500 nm on bacterial viability. <i>Environmental Pollution</i> , 2013, 176, 292-299.	7.5	24
14	On the formation of calcium carbonate thin films under Langmuir monolayers of stearic acid. <i>Colloid and Polymer Science</i> , 2007, 285, 1301-1311.	2.1	23
15	Nanoscale Janus Particles with Dual Protein Functionalization. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700332.	2.3	23
16	Electrostatic assembly of zwitterionic and amphiphilic supraparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 256-266.	9.4	20
17	Synergistic and Competitive Adsorption of Hydrophilic Nanoparticles and Oil-Soluble Surfactants at the Oil-Water Interface. <i>Langmuir</i> , 2021, 37, 5659-5672.	3.5	20
18	Thin Film Formation of Silica Nanoparticle/Lipid Composite Films at the Fluid-Fluid Interface. <i>Langmuir</i> , 2010, 26, 17867-17873.	3.5	18

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19	Self-Assembly and Shape Control of Hybrid Nanocarriers Based on Calcium Carbonate and Carbon Nanodots. <i>Chemistry of Materials</i> , 2016, 28, 3796-3803.	6.7	18
20	Enhanced cell adhesion on bioinert ceramics mediated by the osteogenic cell membrane enzyme alkaline phosphatase. <i>Materials Science and Engineering C</i> , 2016, 69, 184-194.	7.3	18
21	Hydrophobic ceramic capillary membranes for versatile virus filtration. <i>Journal of Membrane Science</i> , 2019, 570-571, 85-92.	8.2	18
22	A Detailed Study of Closed Calcium Carbonate Films at the Liquid-Liquid Interface. <i>Langmuir</i> , 2009, 25, 2258-2263.	3.5	17
23	Amorphous arsenic sulfide nanoparticles in a shallow water hydrothermal system. <i>Marine Chemistry</i> , 2019, 211, 25-36.	2.3	17
24	Proteolytic ceramic capillary membranes for the production of peptides under flow. <i>Biochemical Engineering Journal</i> , 2019, 147, 89-99.	3.6	17
25	Diamondosomes: Submicron Colloidosomes with Nanodiamond Shells. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1067-1071.	2.3	16
26	Micromolding of Calcium Carbonate Using a Bio-Inspired, Coacervation-Mediated Process. <i>Journal of the American Ceramic Society</i> , 2013, 96, 736-742.	3.8	15
27	Flow rate dependent continuous hydrolysis of protein isolates. <i>AMB Express</i> , 2018, 8, 18.	3.0	15
28	Reversible Adsorption of Nanoparticles at Surfactant-Laden Liquid-Liquid Interfaces. <i>Langmuir</i> , 2019, 35, 11089-11098.	3.5	15
29	Particle size analysis and characterization of nanodiamond dispersions in water and dimethylformamide by various scattering and diffraction methods. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	15
30	Selective, Agglomerate-Free Separation of Bacteria Using Biofunctionalized, Magnetic Janus Nanoparticles. <i>ACS Applied Bio Materials</i> , 2019, 2, 3520-3531.	4.6	14
31	Janus nanoparticles designed for extended cell surface attachment. <i>Nanoscale</i> , 2020, 12, 18938-18949.	5.6	12
32	Towards the synthesis of hydroxyapatite/protein scaffolds with controlled porosities: Bulk and interfacial shear rheology of a hydroxyapatite suspension with protein additives. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 529-535.	9.4	10
33	Genipin-crosslinked chitosan/alginate/alumina nanocomposite gels for 3D bioprinting. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 171-185.	3.4	10
34	Chitosan supraparticles with fluorescent silica nanoparticle shells and nanodiamond-loaded cores. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1664-1672.	5.8	8
35	Embedding live bacteria in porous hydrogel/ceramic nanocomposites for bioprocessing applications. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1215-1224.	3.4	8
36	Rheology and Biostratigraphy of the Mariana Serpentine Muds Unravel Mud Volcano Evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10752-10776.	3.4	8

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37	Biomimetic formation of thin, coherent iron oxide films under Langmuir monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 354, 149-155.	4.7	7
38	Simultaneous ground and satellite observations of discrete auroral arcs, substorm aurora, and Alfvénic aurora with FAST and THEMIS GBO. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6998-7010.	2.4	7
39	Tailoring electrostatic surface potential and adsorption capacity of porous ceramics by silica-assisted sintering. <i>Materialia</i> , 2020, 12, 100735.	2.7	7
40	Anchoring of Iron Oxyhydroxide Clusters at H and L Ferritin Subunits. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 483-490.	5.2	5
41	Wet-spinning of magneto-responsive helical chitosan microfibers. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 991-999.	2.8	5
42	3D bioprinting of hydrogel/ceramic composites with hierarchical porosity. <i>Journal of Materials Science</i> , 2022, 57, 3662-3677.	3.7	5
43	In situ observation of maghemite nanoparticle adsorption at the water/gas interface. <i>European Physical Journal: Special Topics</i> , 2009, 167, 133-136.	2.6	4
44	Effect of divalent versus monovalent cations on the MS2 retention capacity of amino-functionalized ceramic filters. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11215-11223.	2.8	3
45	A versatile ceramic capillary membrane reactor system for continuous enzyme-catalyzed hydrolysis. <i>Engineering in Life Sciences</i> , 2021, 21, 527-538.	3.6	3
46	Plasmonic porous ceramics based on zirconia-toughened alumina functionalized with silver nanoparticles for surface-enhanced Raman scattering. <i>Open Ceramics</i> , 2022, 9, 100228.	2.0	3
47	Assessment of nanoparticle immersion depth at liquid interfaces from chemically equivalent macroscopic surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 670-683.	9.4	2
48	Formation and Structure of Coherent, Ultra-thin Calcium Carbonate Films below Monolayers of Stearic Acid at the Oil/Water Interface. , 2008, , 11-18.		1
49	Mineralization of iron oxide by ferritin homopolymers immobilized on SiO ₂ nanoparticles. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2019, 8, 16-27.	0.9	1
50	Arsenic and sulfur nanoparticle synthesis mimicking environmental conditions of submarine shallow-water hydrothermal vents. <i>Journal of Environmental Sciences</i> , 2022, 111, 301-312.	6.1	1
51	Enzymatische Hydrolyseprozesse im kontinuierlich betriebenen Keramikkapillarreaktor. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1213-1213.	0.8	0