

Matthew Z Yates

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5071079/publications.pdf>

Version: 2024-02-01

42
papers

1,380
citations

257450

24
h-index

330143

37
g-index

43
all docs

43
docs citations

43
times ranked

1745
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(vinyl acetate) and Poly(vinyl acetate-co-ethylene) Latexes via Dispersion Polymerizations in Carbon Dioxide. <i>Macromolecules</i> , 1998, 31, 6794-6805.	4.8	97
2	Control of β -Calcium Sulfate Hemihydrate Morphology Using Reverse Microemulsions. <i>Langmuir</i> , 2012, 28, 14137-14142.	3.5	89
3	Coating of hydroxyapatite films on metal substrates by seeded hydrothermal deposition. <i>Surface and Coatings Technology</i> , 2011, 205, 3975-3986.	4.8	83
4	Antimicrobial silver-hydroxyapatite composite coatings through two-stage electrochemical synthesis. <i>Surface and Coatings Technology</i> , 2016, 301, 13-19.	4.8	74
5	Formation of Rod-Shaped Calcite Crystals by Microemulsion-Based Synthesis. <i>Langmuir</i> , 2006, 22, 5566-5569.	3.5	68
6	Hydrothermal Synthesis of Molecular Sieve Fibers: Using Microemulsions To Control Crystal Morphology. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 476-478.	13.8	64
7	Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent. 2. Poly(propylene oxide)- and Poly(butylene oxide)-Based Copolymers. <i>Langmuir</i> , 1997, 13, 1519-1528.	3.5	57
8	Antibacterial Copper β -Hydroxyapatite Composite Coatings via Electrochemical Synthesis. <i>Langmuir</i> , 2019, 35, 5957-5966.	3.5	51
9	Encapsulation and sustained release from biodegradable microcapsules made by emulsification/freeze drying and spray/freeze drying. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 155-161.	9.4	49
10	Steric stabilization of inorganic suspensions in carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2000, 16, 247-260.	3.2	47
11	Yttrium-Doped Hydroxyapatite Membranes with High Proton Conductivity. <i>Chemistry of Materials</i> , 2012, 24, 1738-1743.	6.7	43
12	Two-Dimensional Patterns of Poly(<i>N</i> -isopropylacrylamide) Microgels to Spatially Control Fibroblast Adhesion and Temperature-Responsive Detachment. <i>Langmuir</i> , 2013, 29, 12183-12193.	3.5	43
13	Enhanced Photocatalytic Activity of TiO ₂ Nanoparticles Supported on Electrically Polarized Hydroxyapatite. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17232-17239.	8.0	43
14	Polymer Coatings by Rapid Expansion of Suspensions in Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3655-3662.	3.7	39
15	In-Situ Investigation on the Mechanism of Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000, 33, 4008-4014.	4.8	39
16	Microstructural Engineering of Hydroxyapatite Membranes to Enhance Proton Conductivity. <i>Advanced Functional Materials</i> , 2009, 19, 3941-3947.	14.9	39
17	Effect of Supersaturation on Competitive Nucleation of CaSO ₄ Phases in a Concentrated CaCl ₂ Solution. <i>Crystal Growth and Design</i> , 2012, 12, 1388-1394.	3.0	39
18	Hydroxyapatite Thin Films with Giant Electrical Polarization. <i>Chemistry of Materials</i> , 2015, 27, 1164-1171.	6.7	35

#	ARTICLE	IF	CITATIONS
19	Fabrication of Size-Tunable TiO ₂ Tubes Using Rod-Shaped Calcite Templates. <i>Langmuir</i> , 2007, 23, 10333-10341.	3.5	34
20	Carbonated Hydroxyapatite Coatings with Aligned Crystal Domains. <i>Crystal Growth and Design</i> , 2012, 12, 3474-3480.	3.0	33
21	±-Calcium Sulfate Hemihydrate Nanorods Synthesis: A Method for Nanoparticle Preparation by Mesocrystallization. <i>Langmuir</i> , 2017, 33, 2362-2369.	3.5	32
22	Silver-hydroxyapatite composite coatings with enhanced antimicrobial activities through heat treatment. <i>Surface and Coatings Technology</i> , 2017, 325, 39-45.	4.8	32
23	Trifunctional Ambidextrous Surfactants for Latexes in Supercritical CO ₂ and Water. <i>Macromolecules</i> , 2000, 33, 1606-1612.	4.8	30
24	Electric field processing to control the structure of poly(vinylidene fluoride) composite proton conducting membranes. <i>Journal of Membrane Science</i> , 2009, 326, 539-548.	8.2	30
25	Electric-Field-Driven Assembly of Oriented Molecular-Sieve Films. <i>Advanced Materials</i> , 2004, 16, 1944-1948.	21.0	24
26	MYSTAT: A compact potentiostat/galvanostat for general electrochemistry measurements. <i>HardwareX</i> , 2021, 9, e00163.	2.2	23
27	Nafion®/polystyrene-b-poly(ethylene-ran-butylene)-b-polystyrene composite membranes with electric field-aligned domains for improved direct methanol fuel cell performance. <i>Journal of Power Sources</i> , 2010, 195, 736-743.	7.8	22
28	Fully Dense Yttrium-Substituted Hydroxyapatite Coatings with Aligned Crystal Domains. <i>Crystal Growth and Design</i> , 2012, 12, 217-223.	3.0	19
29	Thermal stability of electrochemical hydrothermal hydroxyapatite coatings. <i>Ceramics International</i> , 2015, 41, 8568-8577.	4.8	18
30	Electrochemical growth of composite hydroxyapatite coatings for controlled release. <i>Surface and Coatings Technology</i> , 2015, 276, 618-625.	4.8	16
31	Figure-of-Merit Characterization of Hydrogen-Bond Acidic Sorbents for Waveguide-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2020, 5, 831-836.	7.8	13
32	Dual Function Surfactants for Carbon Dioxide Based Microencapsulation. <i>Langmuir</i> , 2003, 19, 1106-1113.	3.5	10
33	Formation of spherical calcium sulfate mesocrystals: orientation controlled by subunit growth. <i>CrystEngComm</i> , 2019, 21, 5973-5979.	2.6	10
34	Metal complexation with surface-active Kemp's triacid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 148, 259-270.	4.7	9
35	Latexes Formed by Rapid Expansion of Polymer/CO ₂ Suspensions into Water. 1. Hydrophilic Surfactant in Supercritical CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 536-543.	3.7	9
36	Controllable synthesis of hydroxyapatite-supported palladium nanoparticles with enhanced catalytic activity. <i>Surface and Coatings Technology</i> , 2018, 351, 60-67.	4.8	6

#	ARTICLE	IF	CITATIONS
37	Synthesis of poly(N-isopropylacrylamide) particles for metal affinity binding of peptides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 104-110.	5.0	5
38	Hydroxyapatite Nanocrystal Deposited Titanium Dioxide Nanotubes Loaded with Antibiotics for Combining Biocompatibility and Antibacterial Properties. <i>MRS Advances</i> , 2018, 3, 1703-1709.	0.9	4
39	Carbon Dioxide Emulsion Assisted Loading of Polymer Microspheres toward Sustained Release Materials. <i>Langmuir</i> , 2005, 21, 3730-3732.	3.5	1
40	Ceramic Membranes: Microstructural Engineering of Hydroxyapatite Membranes to Enhance Proton Conductivity (<i>Adv. Funct. Mater.</i> 24/2009). <i>Advanced Functional Materials</i> , 2009, 19, NA-NA.	14.9	1
41	Waveguide-enhanced Raman spectroscopy for field detection of threat materials. , 2022, , .		0
42	Leveraging Arylboronic Acid-Cellulose Binding as a Versatile and Scalable Approach to Hydrophobic Patterning. <i>Advanced Materials Technologies</i> , 0, , 2101280.	5.8	0