

Michael T Harris

List of Publications by Year in descending order

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53
papers

2,831
citations

257450

24
h-index

175258

52
g-index

55
all docs

55
docs citations

55
times ranked

3327
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrohydrodynamic tip streaming and emission of charged drops from liquid cones. <i>Nature Physics</i> , 2008, 4, 149-154.	16.7	354
2	Size, volume fraction, and nucleation of Stober silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2003, 266, 346-358.	9.4	309
3	Formation of beads-on-a-string structures during break-up of viscoelastic filaments. <i>Nature Physics</i> , 2010, 6, 625-631.	16.7	274
4	Self-Assembly of Virus-Structured High Surface Area Nanomaterials and Their Application as Battery Electrodes. <i>Langmuir</i> , 2008, 24, 906-912.	3.5	232
5	Patterned Assembly of Genetically Modified Viral Nanotemplates via Nucleic Acid Hybridization. <i>Nano Letters</i> , 2005, 5, 1931-1936.	9.1	156
6	Improved metal cluster deposition on a genetically engineered tobacco mosaic virus template. <i>Nanotechnology</i> , 2005, 16, S435-S441.	2.6	123
7	Surface modification of magnetic nanoparticles capped by oleic acids: Characterization and colloidal stability in polar solvents. <i>Journal of Colloid and Interface Science</i> , 2006, 293, 401-408.	9.4	123
8	Synthesis and application of virus-based hybrid nanomaterials. <i>Biotechnology and Bioengineering</i> , 2012, 109, 16-30.	3.3	99
9	Breakup of electrified jets. <i>Journal of Fluid Mechanics</i> , 2007, 588, 75-129.	3.4	91
10	Characterization of silica-coated tobacco mosaic virus. <i>Journal of Colloid and Interface Science</i> , 2006, 298, 706-712.	9.4	77
11	Deposition of Platinum Clusters on Surface-Modified Tobacco Mosaic Virus. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 974-981.	0.9	75
12	Biotemplated Aqueous-Phase Palladium Crystallization in the Absence of External Reducing Agents. <i>Nano Letters</i> , 2010, 10, 3863-3867.	9.1	70
13	Preparation of silica stabilized Tobacco mosaic virus templates for the production of metal and layered nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 402-407.	9.4	64
14	Particle deposition study during sessile drop evaporation. <i>AIChE Journal</i> , 2008, 54, 2250-2260.	3.6	58
15	Quantitative study of Au(III) and Pd(II) ion biosorption on genetically engineered Tobacco mosaic virus. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 455-461.	9.4	51
16	Numerical study of vapor phase-diffusion driven sessile drop evaporation. <i>Computers and Chemical Engineering</i> , 2008, 32, 2169-2178.	3.8	41
17	Effect of Substrates on Naproxen-Polyvinylpyrrolidone Solid Dispersions Formed via the Drop Printing Technique. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 638-648.	3.3	41
18	Crystallization and Dissolution Behavior of Naproxen/Polyethylene Glycol Solid Dispersions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1494-1500.	2.6	38

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19	Scaling laws and dynamics of bubble coalescence. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	37
20	Effect of CuCl ₂ concentration on the aggregation and mineralization of Tobacco mosaic virus biotemplate. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 554-560.	9.4	35
21	The Use of Near-Infrared and Microwave Resonance Sensing to Monitor a Continuous Roller Compaction Process. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1895-1904.	3.3	35
22	Engineering Tobacco Mosaic Virus and Its Virus-Like Particles for Synthesis of Biotemplated Nanomaterials. <i>Biotechnology Journal</i> , 2021, 16, e2000311.	3.5	31
23	Formation of Au/Pd Alloy Nanoparticles on TMV. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-6.	2.7	29
24	A novel microwave sensor to determine particulate blend composition on-line. <i>Analytica Chimica Acta</i> , 2014, 819, 82-93.	5.4	24
25	The importance of gravity in droplet evaporation: A comparison of pendant and sessile drop evaporation with particles. <i>AIChE Journal</i> , 2016, 62, 947-955.	3.6	24
26	Polyol Silver Nanowire Synthesis and the Outlook for a Green Process. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-25.	2.7	23
27	The separation of two different sized particles in an evaporating droplet. <i>AIChE Journal</i> , 2015, 61, 3547-3556.	3.6	22
28	Drop printing of pharmaceuticals: Effect of molecular weight on PEG coated naproxen/PEG 3350 solid dispersions. <i>AIChE Journal</i> , 2015, 61, 4502-4508.	3.6	22
29	A Novel Microwave Sensor for Real-Time Online Monitoring of Roll Compacts of Pharmaceutical Powders Online—A Comparative Case Study with NIR. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1787-1794.	3.3	22
30	Artificial Sweeteners and Sugar Ingredients as Reducing Agent for Green Synthesis of Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-16.	2.7	18
31	Surface functionalized silica as a toolkit for studying aqueous phase palladium adsorption and mineralization on thiol moiety in the absence of external reducing agents. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 31-36.	9.4	16
32	On self-similarity in the drop-filament corner region formed during pinch-off of viscoelastic fluid threads. <i>Physics of Fluids</i> , 2012, 24, .	4.0	16
33	SAXS characterization of genetically engineered tobacco mosaic virus nanorods coated with palladium in the absence of external reducing agents. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 213-218.	9.4	16
34	Self-similarity and scaling transitions during rupture of thin free films of Newtonian fluids. <i>Physics of Fluids</i> , 2016, 28, 092101.	4.0	15
35	Stagnation Point of Surface Flow during Drop Evaporation. <i>Langmuir</i> , 2018, 34, 5918-5925.	3.5	15
36	Utilizing microwaves for the determination of moisture content independent of density. <i>Powder Technology</i> , 2013, 236, 17-23.	4.2	14

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37	Decoupling and elucidation of surface-driven processes during inorganic mineralization on virus templates. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 165-176.	9.4	14
38	Electric-field-induced transitions from spherical to discocyte and lens-shaped drops. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	3.4	14
39	Dynamics of sessile droplet evaporation: A comparison of the spine and the elliptic mesh generation methods. <i>Computers and Chemical Engineering</i> , 2007, 31, 219-232.	3.8	13
40	Crystallization of acetaminophen on chitosan films blended with different acids. <i>Chemical Engineering Science</i> , 2015, 126, 1-9.	3.8	13
41	Silver Nanowire Synthesis in a Continuous Millifluidic Reactor. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P144-P149.	1.8	13
42	BSMV as a Biotemplate for Palladium Nanomaterial Synthesis. <i>Langmuir</i> , 2017, 33, 1716-1724.	3.5	13
43	In-Situ Monitoring of the Bulk Density and the Moisture Content of Rapidly Flowing Particulates Using a Microwave Resonance Sensor. <i>IEEE Sensors Journal</i> , 2014, 14, 821-828.	4.7	12
44	Complex Dielectric Properties of Microcrystalline Cellulose, Anhydrous Lactose, and β -Lactose Monohydrate Powders Using a Microwave-Based Open-Reflection Resonator Sensor. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2920-2934.	3.3	10
45	Coagulation of tobacco mosaic virus in alcohol-water-LiCl solutions. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 92-98.	9.4	9
46	Electrohydrodynamics of lenticular drops and equatorial streaming. <i>Journal of Fluid Mechanics</i> , 2021, 925, .	3.4	7
47	Deposition of Colloidal Particles during the Evaporation of Sessile Drops: Dilute Colloidal Dispersions. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-12.	2.4	6
48	Mechanistic study of the hydrothermal reduction of palladium on the Tobacco mosaic virus. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 1-6.	9.4	5
49	Bacterial Production of Barley Stripe Mosaic Virus Biotemplates for Palladium Nanoparticle Growth. <i>ACS Applied Nano Materials</i> , 2020, 3, 12080-12086.	5.0	5
50	A Novel Method to Determine the Resistance of Biotemplated Nanowires. <i>Chemical Engineering Communications</i> , 2015, 202, 1216-1220.	2.6	4
51	A low-cost microwave-based sensor for water content detection. , 2016, , .		1
52	Impact of Additives on Heterogeneous Crystallization of Acetaminophen. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-7.	2.4	1
53	Structural Insights into Self-Assembled Aerosol-OT Aggregates in Aqueous Media Using Atomistic Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13789-13803.	2.6	1