

Matthias E MÃ¶bius

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,520
citations

304743

22
h-index

302126

39
g-index

41
all docs

41
docs citations

41
times ranked

7403
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014, 13, 624-630.	27.5	1,958
2	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <i>Science</i> , 2016, 354, 1257-1260.	12.6	676
3	Size separation of granular particles. <i>Nature</i> , 2001, 414, 270-270.	27.8	282
4	Healable Luminescent Self-Assembly Supramolecular Metallogels Possessing Lanthanide (Eu/Tb) Dependent Rheological and Morphological Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 1983-1992.	13.7	206
5	High-speed tracking of rupture and clustering in freely falling granular streams. <i>Nature</i> , 2009, 459, 1110-1113.	27.8	170
6	Bubble Formation at a Gas-Evolving Microelectrode. <i>Langmuir</i> , 2014, 30, 13065-13074.	3.5	134
7	Additive Manufacturing of Ti_3C_2 -MXene-Functionalized Conductive Polymer Hydrogels for Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2022, 34, e2106253.	21.0	115
8	Fiber Reinforced Cartilage ECM Functionalized Biinks for Functional Cartilage Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801501.	7.6	100
9	Rate Dependence and Role of Disorder in Linearly Sheared Two-Dimensional Foams. <i>Physical Review Letters</i> , 2008, 101, 058301.	7.8	91
10	Three-Dimensional Shear in Granular Flow. <i>Physical Review Letters</i> , 2006, 96, 038001.	7.8	78
11	Self-assembly formation of a healable lanthanide luminescent supramolecular metallogel from 2,6-bis(1,2,3-triazol-4-yl)pyridine (btp) ligands. <i>Chemical Communications</i> , 2015, 51, 14123-14126.	4.1	72
12	Effect of air on granular size separation in a vibrated granular bed. <i>Physical Review E</i> , 2005, 72, 011304.	2.1	68
13	Couette flow of two-dimensional foams. <i>Europhysics Letters</i> , 2010, 90, 54002.	2.0	60
14	Intruders in the Dust: Air-Driven Granular Size Separation. <i>Physical Review Letters</i> , 2004, 93, 198001.	7.8	50
15	Stabilizing effect of a magnetic field on a gas bubble produced at a microelectrode. <i>Electrochemistry Communications</i> , 2012, 18, 28-32.	4.7	48
16	Flow in linearly sheared two-dimensional foams: From bubble to bulk scale. <i>Physical Review E</i> , 2009, 79, 066318.	2.1	47
17	Clustering instability in a freely falling granular jet. <i>Physical Review E</i> , 2006, 74, 051304.	2.1	35
18	Coordination chemistry of N-picolyl-1,8-naphthalimides: colourful low molecular weight metallo-gelators and unique chelation behaviours. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 296-308.	6.0	31

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19	Relaxation and flow in linearly sheared two-dimensional foams. <i>Europhysics Letters</i> , 2010, 90, 44003.	2.0	29
20	Bubble dynamics and rheology in sheared two-dimensional foams. <i>Soft Matter</i> , 2011, 7, 11252.	2.7	28
21	Aging and Solidification of Supercooled Glycerol. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7439-7444.	2.6	27
22	A resilient and luminescent stimuli-responsive hydrogel from a heterotopic 1,8-naphthalimide-derived ligand. <i>Chemical Communications</i> , 2017, 53, 5989-5992.	4.1	25
23	A public study of the lifetime distribution of soap films. <i>American Journal of Physics</i> , 2011, 79, 819-824.	0.7	23
24	Water-soluble, neutral 3,5-diformyl-BODIPY with extended fluorescence lifetime in a self-healable chitosan hydrogel. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1700-1708.	2.9	20
25	Properties of lightweight fibrous structures made by a novel foam forming technique. <i>Cellulose</i> , 2019, 26, 2529-2539.	4.9	18
26	Yielding and flow of highly concentrated, few-layer graphene suspensions. <i>Soft Matter</i> , 2015, 11, 3159-3164.	2.7	17
27	Structure of marginally jammed polydisperse packings of frictionless spheres. <i>Physical Review E</i> , 2015, 91, 032302.	2.1	16
28	Benzene-1,3,5-tricarboxamide n-alkyl ester and carboxylic acid derivatives: tuneable structural, morphological and thermal properties. <i>CrystEngComm</i> , 2017, 19, 1427-1438.	2.6	16
29	Mean-field granocentric approach in 2D & 3D polydisperse, frictionless packings. <i>Philosophical Magazine</i> , 2013, 93, 4030-4056.	1.6	13
30	Balancing connectivity with function in silver (Ag) networks of pyridyltriazole (tzpa) ligands results in the formation of a metallogel. <i>Dalton Transactions</i> , 2020, 49, 7364-7372.	3.3	12
31	Supramolecular aggregation properties of 4-(1-morpholino)-1,8-naphthalimide based fluorescent materials. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3458-3469.	5.9	12
32	2D foams above the jamming transition: Deformation matters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 534, 52-57.	4.7	11
33	An optimized perturbation expansion for a global $O(2)$ theory. <i>Nuclear Physics B</i> , 2000, 577, 325-340.	2.5	8
34	Analysis of the foam-forming of non-woven lightweight fibrous materials using X-ray tomography. <i>SN Applied Sciences</i> , 2021, 3, 192.	2.9	8
35	Effect of Tetraalkylammonium Cations on Gas Coalescence at a Hydrogen-Evolving Microelectrode. <i>Langmuir</i> , 2015, 31, 5738-5747.	3.5	5
36	Generation and stability of freestanding aqueous microbubbles. <i>Electrochemistry Communications</i> , 2017, 76, 38-41.	4.7	5

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37	Spatial correlations in polydisperse, frictionless, two-dimensional packings. <i>Physical Review E</i> , 2011, 84, 020302.	2.1	4
38	Size and Density Separation in Granular Materials. <i>Materials Research Society Symposia Proceedings</i> , 2002, 759, 1.	0.1	1
39	Sheared disk packings as a model system for complex dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 394, 312-319.	2.6	1
40	Rupture and clustering in granular streams. <i>Chaos</i> , 2009, 19, 041103.	2.5	0