

# Matthias SchrÄjter

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,730  
citations

257429

24  
h-index

276858

41  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically heated granular gas in a low-gravity environment. EPJ Web of Conferences, 2021, 249, 04002.	0.3	2
2	Detecting and analysing geomorphological structures in images of comet 67P/Churyumov-Gerasimenko using Fourier transform. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3449-3459.	4.4	0
3	Soft matter dynamics: A versatile microgravity platform to study dynamics in soft matter. Review of Scientific Instruments, 2021, 92, 124503.	1.3	7
4	Migrating Shear Bands in Shaken Granular Matter. Physical Review Letters, 2020, 125, 048001.	7.8	5
5	Velocity Distribution of a Homogeneously Cooling Granular Gas. Physical Review Letters, 2020, 124, 208007.	7.8	27
6	Influence of mineralization and injection flow rate on flow patterns in three-dimensional porous media. Physical Chemistry Chemical Physics, 2019, 21, 14605-14611.	2.8	6
7	Structural similarity between dry and wet sphere packings. New Journal of Physics, 2019, 21, 043020.	2.9	3
8	Correction of beam hardening in X-ray radiograms. Review of Scientific Instruments, 2019, 90, 025108.	1.3	23
9	The Impact of Wetting-Heterogeneity Distribution on Capillary Pressure and Macroscopic Measures of Wettability. SPE Journal, 2019, 24, 200-214.	3.1	11
10	Nucleation in Sheared Granular Matter. Physical Review Letters, 2018, 120, 055701.	7.8	40
11	Skinny emulsions take on granular matter. Soft Matter, 2018, 14, 7310-7323.	2.7	6
12	Double origin of stochastic granular tribocharging. Soft Matter, 2018, 14, 4987-4995.	2.7	35
13	Symmetric wetting heterogeneity suppresses fluid displacement hysteresis in granular piles. Physical Review Fluids, 2018, 3, .	2.5	0
14	Analyzing X-ray tomographies of granular packings. Review of Scientific Instruments, 2017, 88, 051809.	1.3	55
15	Influence of humidity on tribo-electric charging and segregation in shaken granular media. Soft Matter, 2017, 13, 394-401.	2.7	73
16	Preface: Focus on imaging methods in granular physics. Review of Scientific Instruments, 2017, 88, 051701.	1.3	29
17	A local view on the role of friction and shape. EPJ Web of Conferences, 2017, 140, 01008.	0.3	6
18	Pomelo, a tool for computing Generic Set Voronoi Diagrams of Aspherical Particles of Arbitrary Shape. EPJ Web of Conferences, 2017, 140, 06007.	0.3	16

#	ARTICLE	IF	CITATIONS
19	Charging changes contact composition in binary sphere packings. <i>Physical Review E</i> , 2017, 95, 062903.	2.1	8
20	High refractive index immersion liquid for superresolution 3D imaging using sapphire-based aplanatic numerical aperture increasing lens optics. <i>Applied Optics</i> , 2016, 55, 3165.	1.8	11
21	A cohesive granular material with tunable elasticity. <i>Scientific Reports</i> , 2016, 6, 35650.	3.3	37
22	Upper bound on the Edwards entropy in frictional monodisperse hard-sphere packings. <i>Soft Matter</i> , 2016, 12, 3991-4006.	2.7	10
23	The mechanism of long-term coarsening of granular mixtures in rotating drums. <i>New Journal of Physics</i> , 2015, 17, 093023.	2.9	17
24	Neutron Tomography as a Tool To Study Immiscible Fluids in Porous Media without Chemical Dopants. <i>Energy &amp; Fuels</i> , 2015, 29, 6271-6276.	5.1	9
25	Local Origin of Global Contact Numbers in Frictional Ellipsoid Packings. <i>Physical Review Letters</i> , 2015, 114, 158001.	7.8	52
26	Non-universal Voronoi cell shapes in amorphous ellipsoid packs. <i>Europhysics Letters</i> , 2015, 111, 24002.	2.0	47
27	Measuring the configurational temperature of a binary disc packing. <i>Soft Matter</i> , 2014, 10, 4208.	2.7	25
28	Wetting Heterogeneities in Porous Media Control Flow Dissipation. <i>Physical Review Applied</i> , 2014, 2, .	3.8	56
29	Jammed Frictional Tetrahedra are Hyperstatic. <i>Physical Review Letters</i> , 2013, 111, 028001.	7.8	54
30	Focus on granular segregation. <i>New Journal of Physics</i> , 2013, 15, 035017.	2.9	11
31	Granular transport in a horizontally vibrated sawtooth channel. <i>Physical Review E</i> , 2013, 88, 042201.	2.1	16
32	Tomographic analysis of jammed ellipsoid packings. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	25
33	Correlation between Voronoi volumes in disc packings. <i>Europhysics Letters</i> , 2012, 97, 34004.	2.0	21
34	Performance of polarization-based stereoscopy screens. <i>3D Research</i> , 2012, 3, 1.	1.8	0
35	Statistical mechanics for static granular media: open questions. <i>Soft Matter</i> , 2012, 8, 9731.	2.7	33
36	Shearing of frictional sphere packings. <i>Europhysics Letters</i> , 2011, 93, 64003.	2.0	33

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37	Sound speed in water-saturated glass beads as a function of frequency and porosity. Journal of the Acoustical Society of America, 2011, 129, EL101-EL107.	1.1	8
38	Tailoring the frictional properties of granular media. Physical Review E, 2011, 84, 031306.	2.1	16
39	Disordered spherical bead packs are anisotropic. Europhysics Letters, 2010, 90, 34001.	2.0	70
40	Controlling the Formation of Capillary Bridges in Binary Liquid Mixtures. Langmuir, 2010, 26, 17184-17189.	3.5	44
41	Fluidization of granular media wetted by liquidHe4. Physical Review E, 2009, 79, 010301.	2.1	12
42	Onset of Mechanical Stability in Random Packings of Frictional Spheres. Physical Review Letters, 2008, 101, 018301.	7.8	150
43	Geometry-induced asymmetric diffusion. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9580-9584.	7.1	46
44	Phase transition in a static granular system. Europhysics Letters, 2007, 78, 44004.	2.0	55
45	Influence of friction on granular segregation. Physical Review E, 2007, 76, 042301.	2.1	64
46	An invariant distribution in static granular media. Europhysics Letters, 2007, 79, 24003.	2.0	74
47	Mechanisms in the size segregation of a binary granular mixture. Physical Review E, 2006, 74, 011307.	2.1	169
48	Stationary state volume fluctuations in a granular medium. Physical Review E, 2005, 71, 030301.	2.1	161
49	Experimental investigation of the initial regime in fingering electrodeposition: Dispersion relation and velocity measurements. Physical Review E, 2002, 65, 041607.	2.1	9
50	Influence of ohmic heating on the flow field in thin-layer electrodeposition. Physical Review E, 2002, 66, 026307.	2.1	2
51	Finger-like patterns in sedimenting water-sand suspensions. Physics Reports, 2000, 337, 117-138.	25.6	16
52	Fingering instability in a water-sand mixture. European Physical Journal B, 1998, 4, 475-484.	1.5	21
53	On the trail of a comet's tail: A particle tracking algorithm for comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 0, , .	5.1	2