

# Philip Born

## List of Publications by Year in descending order

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29  
papers

551  
citations

758635

12  
h-index

642321

23  
g-index

35  
all docs

35  
docs citations

35  
times ranked

980  
citing authors

#	ARTICLE	IF	CITATIONS
1	SnO <sub>2</sub> @TiO <sub>2</sub> Core-Shell Nanowire Structures: Investigations on Solid State Reactivity and Photocatalytic Behavior. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17265-17269.	1.5	85
2	Nanoparticle Clusters with Lennard-Jones Geometries. <i>Nano Letters</i> , 2012, 12, 3279-3282.	4.5	82
3	Role of the Meniscus Shape in Large-Area Convective Particle Assembly. <i>Langmuir</i> , 2011, 27, 8621-8633.	1.6	61
4	Crystallization Mechanisms in Convective Particle Assembly. <i>Langmuir</i> , 2012, 28, 8300-8308.	1.6	40
5	Switching Between Crystallization and Amorphous Agglomeration of Alkyl Thiol-Coated Gold Nanoparticles. <i>Physical Review Letters</i> , 2012, 109, 128302.	2.9	39
6	Double origin of stochastic granular tribocharging. <i>Soft Matter</i> , 2018, 14, 4987-4995.	1.2	35
7	Biphasic Synthesis of Au@SiO <sub>2</sub> Core-Shell Particles with Stepwise Ligand Exchange. <i>Langmuir</i> , 2011, 27, 727-732.	1.6	32
8	Preface: Focus on imaging methods in granular physics. <i>Review of Scientific Instruments</i> , 2017, 88, 051701.	0.6	29
9	Enhanced granular medium-based tube and hollow profile press hardening. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 273-276.	1.7	24
10	Synthesis of Monodisperse Silica Nanoparticles Dispersable in Non-Polar Solvents. <i>Advanced Engineering Materials</i> , 2010, 12, 374-378.	1.6	22
11	Ligand-dominated temperature dependence of agglomeration kinetics and morphology in alkyl-thiol-coated gold nanoparticles. <i>Physical Review E</i> , 2013, 87, 062313.	0.8	19
12	Analysis of granular packing structure by scattering of THz radiation. <i>Review of Scientific Instruments</i> , 2017, 88, 051802.	0.6	12
13	Self-Assembly of Gold Nanoparticles at the Oil-Vapor Interface: From Mono- to Multilayers. <i>Langmuir</i> , 2014, 30, 13176-13181.	1.6	10
14	Dense fluidized granular media in microgravity. <i>Npj Microgravity</i> , 2017, 3, 27.	1.9	8
15	Direct-imaging of light-driven colloidal Janus particles in weightlessness. <i>Review of Scientific Instruments</i> , 2020, 91, 013902.	0.6	7
16	Soft matter dynamics: A versatile microgravity platform to study dynamics in soft matter. <i>Review of Scientific Instruments</i> , 2021, 92, 124503.	0.6	7
17	Particle characterization using THz spectroscopy. <i>Granular Matter</i> , 2015, 17, 531-536.	1.1	6
18	Size and shape evolution of PS particle layers during etching. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 130-140.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Granular structure determined by terahertz scattering. Europhysics Letters, 2014, 106, 48006.	0.7	5
20	Distinguishing noisy crystalline structures using bond orientational order parameters. European Physical Journal E, 2019, 42, 149.	0.7	5
21	Role of Meniscus Shape in Large-Area Convective Particle Assembly. Springer Theses, 2013, , 23-50.	0.0	4
22	Temperature-induced particle self-assembly. Journal of Physics and Chemistry of Solids, 2010, 71, 95-99.	1.9	3
23	Granular ionic crystals in a small nutshell. Soft Matter, 2019, 15, 7179-7186.	1.2	3
24	Robust, ultrasmall organosilica nanoparticles without silica shells. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	2
25	Drop Tower Setup for Dynamic Light Scattering in Dense Gas-Fluidized Granular Media. Microgravity Science and Technology, 2016, 28, 413-420.	0.7	1
26	Probing density waves in fluidized granular media with diffusing-wave spectroscopy. Physical Review E, 2016, 94, 032901.	0.8	1
27	Origin of Order in Alkyl Thiol-Stabilized Nanoparticle Packings. Springer Theses, 2013, , 105-120.	0.0	0
28	Crystallization Mechanisms in Convective Particle Assembly. Springer Theses, 2013, , 51-73.	0.0	0
29	Dynamic light scattering from single macroscopic particles. Applied Optics, 2021, 60, 10160.	0.9	0