

# Marcin FiaÅ,kowski

## List of Publications by Year in descending order

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62  
papers

2,976  
citations

279701

23  
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161767

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all docs

62  
docs citations

62  
times ranked

4347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic Self-Assembly of Binary Nanoparticle Crystals with a Diamond-Like Lattice. <i>Science</i> , 2006, 312, 420-424.	6.0	841
2	Plastic and Moldable Metals by Self-Assembly of Sticky Nanoparticle Aggregates. <i>Science</i> , 2007, 316, 261-264.	6.0	270
3	Principles and Implementations of Dissipative (Dynamic) Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2482-2496.	1.2	268
4	Micro- and nanotechnology via reaction-diffusion. <i>Soft Matter</i> , 2005, 1, 114.	1.2	196
5	Architecture and Evolution of Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7263-7269.	7.2	115
6	Effects of Surface Modification and Moisture on the Rates of Charge Transfer between Metals and Organic Materials. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20296-20302.	1.2	104
7	Crossover regime for the diffusion of nanoparticles in polyethylene glycol solutions: influence of the depletion layer. <i>Soft Matter</i> , 2011, 7, 7181.	1.2	94
8	Multicolour micropatterning of thin films of dry gels. <i>Nature Materials</i> , 2004, 3, 729-735.	13.3	86
9	Self-assembly of polymeric microspheres of complex internal structures. <i>Nature Materials</i> , 2004, 4, 93-97.	13.3	73
10	Highly reproducible, stable and multiply regenerated surface-enhanced Raman scattering substrate for biomedical applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 8662.	6.7	65
11	Kinetics of Contact Electrification between Metals and Polymers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20511-20515.	1.2	45
12	Close-packed monolayers of charged Janus-type nanoparticles at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2012, 375, 180-186.	5.0	45
13	One-Step Multilevel Microfabrication by Reaction-Diffusion. <i>Langmuir</i> , 2005, 21, 418-423.	1.6	43
14	Nanoparticles in a Capillary Trap: Dynamic Self-Assembly at Fluid Interfaces. <i>ACS Nano</i> , 2013, 7, 8833-8839.	7.3	42
15	A "nano-windmill" driven by a flux of water vapour: a comparison to the rotating ATPase. <i>Nanoscale</i> , 2013, 5, 9732.	2.8	41
16	Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19096-19103.	1.5	40
17	Universal rules for fragmentation of land by humans. <i>Landscape Ecology</i> , 2008, 23, 1013-1022.	1.9	37
18	Wave Optics of Liesegang Rings. <i>Physical Review Letters</i> , 2005, 94, 018303.	2.9	36

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19	Scaling of the Euler Characteristic, Surface Area, and Curvatures in the Phase Separating or Ordering Systems. <i>Physical Review Letters</i> , 2001, 86, 240-243.	2.9	35
20	Morphology of Surfaces in Mesoscopic Polymers, Surfactants, Electrons, or Reaction-Diffusion Systems: Methods, Simulations, and Measurements. <i>Advances in Chemical Physics</i> , 2002, , 141-239.	0.3	28
21	Viscous properties of nematic liquid crystals composed of biaxial molecules. <i>Physical Review E</i> , 1998, 58, 1955-1966.	0.8	26
22	Dynamics of Phase Separation in Polymer Blends Revisited: Morphology, Spinodal, Noise, and Nucleation. <i>Macromolecular Theory and Simulations</i> , 2008, 17, 263-273.	0.6	26
23	Single-Walled Carbon Nanotube/Lyotropic Liquid Crystal Hybrid Materials Fabricated by a Phase Separation Method in the Presence of Polyelectrolyte. <i>Langmuir</i> , 2010, 26, 8821-8828.	1.6	24
24	Gold Micro-Flowers: One-Step Fabrication of Efficient, Highly Reproducible Surface-Enhanced Raman Spectroscopy Platform. <i>Plasmonics</i> , 2011, 6, 697-704.	1.8	23
25	Synthesis of a Free-Standing Monolayer of Covalently Bonded Gold Nanoparticles. <i>Chemistry of Materials</i> , 2016, 28, 5304-5313.	3.2	22
26	Micropatterning Chemical Oscillations: Waves, Autofocusing, and Symmetry Breaking. <i>Journal of the American Chemical Society</i> , 2005, 127, 15943-15948.	6.6	20
27	Triggering autocatalytic reaction by host-guest interactions. <i>Chemical Communications</i> , 2016, 52, 4191-4194.	2.2	20
28	Arrays of microlenses of complex shapes prepared by reaction-diffusion in thin films of ionically doped gels. <i>Applied Physics Letters</i> , 2004, 85, 1871-1873.	1.5	19
29	Self-organization of planar microlenses by periodic precipitation. <i>Journal of Applied Physics</i> , 2005, 97, 126102.	1.1	19
30	Morphological changes during the order-disorder transition in the two- and three-dimensional systems of scalar nonconserved order parameters. <i>Physical Review E</i> , 2002, 66, 046121.	0.8	18
31	Quench-jump sequence in phase separation in polymer blends. <i>Journal of Chemical Physics</i> , 2002, 117, 1886-1892.	1.2	17
32	From complex structures to complex processes: Percolation theory applied to the formation of a city. <i>Physical Review E</i> , 2009, 80, 037102.	0.8	16
33	Gold-Oxoborate Nanocomposites and Their Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 3931-3939.	4.0	16
34	Aggregation and Layering Transitions in Thin Films of Cylindrical and Anchor-Shaped Bolaamphiphiles at the Air-Water Interface. <i>Chemistry - A European Journal</i> , 2011, 17, 5861-5873.	1.7	14
35	A wrap-and-wrest mechanism of fluorescence quenching of CdSe/ZnS quantum dots by surfactant molecules. <i>Nanoscale</i> , 2013, 5, 9908.	2.8	14
36	Morphological changes of gold nanoparticles due to adsorption onto silicon substrate and oxygen plasma treatment. <i>RSC Advances</i> , 2014, 4, 12729-12736.	1.7	14

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37	Gold Nanoparticles Functionalized with Fullerene Derivative as an Effective Interface Layer for Improving the Efficiency and Stability of Planar Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001144.	1.9	14
38	Microscopic Approach to Theory of Biaxial Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 265, 371-385.	0.3	13
39	Azahomofullerenes as New n-Type Acceptor Materials for Efficient and Stable Inverted Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20296-20304.	4.0	13
40	Viscous properties of biaxial nematic liquid crystals: The method of calculation of the Leslie viscosity coefficients. <i>Physical Review E</i> , 1997, 55, 2902-2915.	0.8	11
41	Mechanism of Reactive Wetting and Direct Visual Determination of the Kinetics of Self-Assembled Monolayer Formation. <i>Langmuir</i> , 2009, 25, 9-12.	1.6	11
42	Polymer-induced ordering and phase separation in ionic surfactants. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 93-102.	5.0	11
43	Autonomous Self-Assembly of Ionic Nanoparticles into Hexagonally Close-Packed Lattices at a Planar Oil-Water Interface. <i>Chemistry - A European Journal</i> , 2012, 18, 2235-2238.	1.7	10
44	Oriental phenomena in a plastic flow of a two-dimensional square crystal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 282, 65-76.	1.2	9
45	Amplification of Changes of a Thin Film's Macromolecular Structure into Macroscopic Reaction-Diffusion Patterns. <i>Journal of the American Chemical Society</i> , 2005, 127, 6936-6937.	6.6	9
46	Gold Nanoparticles Functionalized with Fully Conjugated Fullerene C <sub>60</sub> Derivatives as a Material with Exceptional Capability of Absorbing Electrons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6229-6240.	1.5	8
47	Late Stage of the Phase-Separation Process: Coalescence-Induced Coalescence, Gravitational Sedimentation, and Collective Evaporation Mechanisms. <i>Langmuir</i> , 2008, 24, 6433-6440.	1.6	7
48	Stable, ordered multilayers of partially fluorinated bolaamphiphiles at the air-water interface. <i>Soft Matter</i> , 2012, 8, 5262.	1.2	7
49	A Daily Water Table Depth Computing Model for Poorly Drained Soils. <i>Wetlands</i> , 2019, 39, 39-54.	0.7	6
50	Viscous properties of binary mixtures of nematic liquid crystals. <i>Physical Review E</i> , 1996, 53, 721-726.	0.8	5
51	Morphology from the maximum entropy principle: Domains in a phase ordering system and a crack pattern in broken glass. <i>Physical Review E</i> , 2002, 65, 057105.	0.8	4
52	A Morphological Study of the Formation of PdH <sub>x</sub> on Thin Palladium Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7373-7376.	1.2	4
53	Entropy of the Land Parcel Mosaic as a Measure of the Degree of Urbanization. <i>Entropy</i> , 2021, 23, 543.	1.1	4
54	The unphysical pinning of the domain growth during the separation of homopolymer blends near the spinodal. <i>Journal of Chemical Physics</i> , 2004, 120, 5802-5808.	1.2	3

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55	Dynamic charge separation in a liquid crystalline meniscus. <i>Soft Matter</i> , 2009, 5, 2352-2360.	1.2	3
56	New One-Pot Technique to Introduce Charged Nanoparticles into a Lyotropic Liquid Crystal Matrix. <i>Langmuir</i> , 2011, 27, 3937-3944.	1.6	3
57	Phenomenological approach to viscosity of a two-dimensional square crystal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 284, 59-67.	1.2	2
58	Mechanical and electrical properties of nanostructured "plastic metals"™. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1313-1317.	1.5	2
59	A Seedless Method for Gold Nanoparticle Growth inside a Silica Matrix: Fabrication of Materials Capable of Third-Harmonic Generation in the Near-Infrared. <i>ChemPlusChem</i> , 2019, 84, 525-533.	1.3	2
60	Donor-Acceptor Stenhouse Adducts for Stimuli-Responsive Self-Assembly of Gold Nanoparticles into Semiconducting Thin Films. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	2
61	Tailoring Optical Properties of Conjugated Statistical Co-Oligomers Composed of 3-Pentylthiophene and 2-(1-Naphthyl)Vinyl]thiophene through the Monomer Ratio in the Main Chain. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 562-569.	1.1	1
62	Publisher's Note: From complex structures to complex processes: Percolation theory applied to the formation of a city [ <i>Phys. Rev. E</i> 80, 037102 (2009)]. <i>Physical Review E</i> , 2009, 80, .	0.8	0