

Peng Jiang

List of Publications by Year in descending order

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69
papers

5,027
citations

136950

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docs citations

69
times ranked

5212
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Scale Fabrication of Wafer-Size Colloidal Crystals, Macroporous Polymers and Nanocomposites by Spin-Coating. <i>Journal of the American Chemical Society</i> , 2004, 126, 13778-13786.	13.7	621
2	Bioinspired Self-Cleaning Antireflection Coatings. <i>Advanced Materials</i> , 2008, 20, 3914-3918.	21.0	482
3	Broadband moth-eye antireflection coatings on silicon. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	447
4	Preparation of Macroporous Metal Films from Colloidal Crystals. <i>Journal of the American Chemical Society</i> , 1999, 121, 7957-7958.	13.7	363
5	Thickness Dependence of the Optical Properties of Ordered Silica-Air and Air-Polymer Photonic Crystals. <i>Physical Review Letters</i> , 1999, 83, 300-303.	7.8	313
6	Reconfigurable photonic crystals enabled by pressure-responsive shape-memory polymers. <i>Nature Communications</i> , 2015, 6, 7416.	12.8	238
7	Wafer-Scale Periodic Nanohole Arrays Templated from Two-Dimensional Nonclose-Packed Colloidal Crystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 3710-3711.	13.7	185
8	Two-dimensional nonclose-packed colloidal crystals formed by spincoating. <i>Applied Physics Letters</i> , 2006, 89, 011908.	3.3	166
9	Chromogenic Photonic Crystals Enabled by Novel Vapor-Responsive Shape-Memory Polymers. <i>Advanced Materials</i> , 2015, 27, 3696-3704.	21.0	155
10	Templated fabrication of large area subwavelength antireflection gratings on silicon. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	137
11	Optical properties of planar colloidal crystals: Dynamical diffraction and the scalar wave approximation. <i>Journal of Chemical Physics</i> , 1999, 111, 345-354.	3.0	125
12	Templated Fabrication of Periodic Metallic Nanopyramid Arrays. <i>Chemistry of Materials</i> , 2007, 19, 4551-4556.	6.7	92
13	Large-scale assembly of colloidal nanoparticles and fabrication of periodic subwavelength structures. <i>Nanotechnology</i> , 2008, 19, 475604.	2.6	92
14	Self-assembled self-cleaning broadband anti-reflection coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 84-100.	4.7	92
15	Self-assembled biomimetic antireflection coatings. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	90
16	Biomimetic subwavelength antireflective gratings on GaAs. <i>Optics Letters</i> , 2008, 33, 2224.	3.3	79
17	Bioinspired broadband antireflection coatings on GaSb. <i>Applied Physics Letters</i> , 2008, 92, 141109.	3.3	77
18	Colloidal photonic superlattices. <i>Physical Review B</i> , 2001, 64, .	3.2	76

#	ARTICLE	IF	CITATIONS
19	Bioinspired Assembly of Colloidal Nanoplatelets by Electric Field. <i>Chemistry of Materials</i> , 2009, 21, 2039-2044.	6.7	76
20	Chromogenic Photonic Crystal Sensors Enabled by Multistimuli-Responsive Shape Memory Polymers. <i>Small</i> , 2018, 14, e1703515.	10.0	72
21	Direct Writing of Three-Dimensional Macroporous Photonic Crystals on Pressure-Responsive Shape Memory Polymers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23650-23659.	8.0	64
22	Self-Cleaning Diffractive Macroporous Films by Doctor Blade Coating. <i>Langmuir</i> , 2010, 26, 12598-12604.	3.5	63
23	Reconfigurable Photonic Crystals Enabled by Multistimuli-Responsive Shape Memory Polymers Possessing Room Temperature Shape Processability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5457-5467.	8.0	59
24	Templated biomimetic multifunctional coatings. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	58
25	Superhydrophobic hierarchical arrays fabricated by a scalable colloidal lithography approach. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 484-492.	9.4	52
26	Scalable bottom-up fabrication of colloidal photonic crystals and periodic plasmonic nanostructures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6031.	5.5	50
27	Optically Bistable Macroporous Photonic Crystals Enabled by Thermoresponsive Shape Memory Polymers. <i>Advanced Optical Materials</i> , 2015, 3, 1509-1516.	7.3	48
28	Self-assembled biomimetic superhydrophobic hierarchical arrays. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 51-57.	9.4	44
29	Biomimetic broadband antireflection gratings on solar-grade multicrystalline silicon wafers. <i>Applied Physics Letters</i> , 2011, 99, 191103.	3.3	42
30	High surface plasmon resonance sensitivity enabled by optical disks. <i>Optics Letters</i> , 2012, 37, 3681.	3.3	36
31	Surface plasmon resonance and surface-enhanced Raman scattering sensing enabled by digital versatile discs. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	35
32	Scalable fabrication of superhydrophobic hierarchical colloidal arrays. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 558-565.	9.4	34
33	Programmable Macroporous Photonic Crystals Enabled by Swelling-Induced All-Room-Temperature Shape Memory Effects. <i>Advanced Functional Materials</i> , 2017, 27, 1703522.	14.9	31
34	Macroporous photonic crystal-based vapor detectors created by doctor blade coating. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	27
35	Outstanding surface plasmon resonance performance enabled by templated oxide gratings. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26078-26087.	2.8	26
36	Bioinspired assembly of surface-roughened nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 272-278.	9.4	23

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37	Generalized Fabrication of Monolayer Nonclose-Packed Colloidal Crystals with Tunable Lattice Spacing. <i>Langmuir</i> , 2013, 29, 7674-7681.	3.5	21
38	Self-assembled nanoparticle antiglare coatings. <i>Optics Letters</i> , 2012, 37, 4380.	3.3	20
39	Reconfigurable Anticounterfeiting Coatings Enabled by Macroporous Shape Memory Polymers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 36-46.	4.4	20
40	Electrophoretic deposition of biomimetic nanocomposites. <i>Electrochemistry Communications</i> , 2009, 11, 14-17.	4.7	19
41	Electrophoretic co-deposition of biomimetic nanoplateletâ€“polyelectrolyte composites. <i>Electrochemistry Communications</i> , 2009, 11, 1635-1638.	4.7	18
42	Rapid electrostatics-assisted layer-by-layer assembly of near-infrared-active colloidal photonic crystals. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 89-94.	9.4	18
43	Large-scale assembly of periodic nanostructures with metastable square lattices. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1043.	1.3	17
44	Self-assembled nanoparticle antireflection coatings on geometrically complex optical surfaces. <i>Optics Letters</i> , 2018, 43, 5238.	3.3	17
45	Unconventional Shape Memory Mechanisms of Nanoporous Polymer Photonic Crystals: Implications for Nano-Optical Coatings and Devices. <i>ACS Applied Nano Materials</i> , 2018, 1, 6081-6090.	5.0	16
46	Bio-Inspired Polymer Thin Films with Non-Close-Packed Nanopillars for Enhanced Bactericidal and Antireflective Properties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5808-5816.	4.4	16
47	Templated Fabrication of Periodic Binary Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17586-17591.	3.1	15
48	Acclaimed defects. <i>Nature Photonics</i> , 2008, 2, 9-11.	31.4	14
49	Energy efficiency of smart windows made of photonic crystal. <i>International Journal of Construction Management</i> , 2017, 17, 100-112.	3.2	14
50	Evaporation-Induced Hierarchical Assembly of Rigid Silicon Nanopillars Fabricated by a Scalable Two-Level Colloidal Lithography Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40461-40469.	8.0	14
51	Controlling the Geometries of Si Nanowires through Tunable Nanosphere Lithography. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7368-7375.	8.0	13
52	Templated Fabrication of Periodic Arrays of Metallic Attoliter Petri Dishes. <i>Chemistry of Materials</i> , 2010, 22, 1768-1775.	6.7	12
53	Biomimetic Antireflection Surfaces. , 2013, , 305-331.		12
54	Macroporous Superhydrophobic Coatings with Switchable Wettability Enabled by Smart Shape Memory Polymers. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002111.	3.7	12

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55	The distributions of enhancement factors in close-packed and nonclose-packed surface-enhanced Raman substrates. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 389-395.	2.5	11
56	Surface plasmon resonance-enabled antibacterial digital versatile discs. <i>Applied Physics Letters</i> , 2012, 100, 063702.	3.3	10
57	Scalable parallel self-assembly of nanoparticle anti-reflection coatings. <i>Thin Solid Films</i> , 2017, 621, 156-164.	1.8	10
58	Bioinspired broadband midwavelength infrared antireflection coatings on silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, 041807.	1.2	9
59	Sensitive surface plasmon resonance enabled by templated periodic arrays of gold nanodonuts. <i>Nanotechnology</i> , 2016, 27, 195601.	2.6	8
60	Elevated surface plasmon resonance sensing sensitivity of Au-covered silica sphere monolayer prepared by Langmuir-Blodgett coating. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 179-186.	5.8	5
61	Wafer-scale fabrication of periodic polymer attolitre microvial arrays. <i>Chemical Communications</i> , 2005, , 1699.	4.1	4
62	An enhanced finite difference time domain method for two dimensional Maxwell's equations. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1129-1144.	3.6	4
63	Improved Surface Plasmon Resonance Sensing Sensitivity due to an Electrochemically Potential-Induced Gold Reconstruction. <i>Journal of Electrochemical Science and Technology</i> , 2021, 12, 167-172.	2.2	3
64	Switchable Friction Coefficient on Shape Memory Photonic Crystals. <i>MRS Advances</i> , 2020, 5, 757-763.	0.9	2
65	Monitoring electrochemical methanol oxidation and CO coverage using Pt deposited SPR sensor platform. <i>International Journal of Energy Research</i> , 2021, 45, 19535.	4.5	2
66	Photonic Crystals: Optically Bistable Macroporous Photonic Crystals Enabled by Thermoresponsive Shape Memory Polymers (<i>Advanced Optical Materials</i> 11/2015). <i>Advanced Optical Materials</i> , 2015, 3, 1508-1508.	7.3	1
67	BIOINSPIRED SELF-CLEANING ANTIREFLECTION COATINGS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2014, , 65-95.	0.1	0
68	Scalable Nanomanufacturing of Broadband Antireflection Coatings on Semiconductors. , 2016, , 319-353.		0
69	Colloidal assembly to antireflection coatings. , 2022, , .		0