

# Peng Jiang

## List of Publications by Year in descending order

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69  
papers

5,027  
citations

136950

32  
h-index

106344

65  
g-index

69  
all docs

69  
docs citations

69  
times ranked

5212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal assembly to antireflection coatings. , 2022, , .		0
2	Macroporous Superhydrophobic Coatings with Switchable Wettability Enabled by Smart Shape Memory Polymers. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002111.	3.7	12
3	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
4	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
5	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
6	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
7	Switchable Friction Coefficient on Shape Memory Photonic Crystals. <i>MRS Advances</i> , 2020, 5, 757-763.	0.9	2
8	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
9	Evaporation-Induced Hierarchical Assembly of Rigid Silicon Nanopillars Fabricated by a Scalable Two-Level Colloidal Lithography Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40461-40469.	8.0	14
10	Reconfigurable Anticounterfeiting Coatings Enabled by Macroporous Shape Memory Polymers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 36-46.	4.4	20
11	Chromogenic Photonic Crystal Sensors Enabled by Multistimuli-Responsive Shape Memory Polymers. <i>Small</i> , 2018, 14, e1703515.	10.0	72
12	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
13	Self-assembled nanoparticle antireflection coatings on geometrically complex optical surfaces. <i>Optics Letters</i> , 2018, 43, 5238.	3.3	17
14	Controlling the Geometries of Si Nanowires through Tunable Nanosphere Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7368-7375.	8.0	13
15	Reconfigurable Photonic Crystals Enabled by Multistimuli-Responsive Shape Memory Polymers Possessing Room Temperature Shape Processability. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5457-5467.	8.0	59
16	Scalable parallel self-assembly of nanoparticle anti-reflection coatings. <i>Thin Solid Films</i> , 2017, 621, 156-164.	1.8	10
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Energy efficiency of smart windows made of photonic crystal. International Journal of Construction Management, 2017, 17, 100-112.	3.2	14
20	Bioinspired broadband midwavelength infrared antireflection coatings on silicon. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 041807.	1.2	9
21	Rapid electrostatics-assisted layer-by-layer assembly of near-infrared-active colloidal photonic crystals. Journal of Colloid and Interface Science, 2016, 482, 89-94.	9.4	18
22	Outstanding surface plasmon resonance performance enabled by templated oxide gratings. Physical Chemistry Chemical Physics, 2016, 18, 26078-26087.	2.8	26
23	Scalable Nanomanufacturing of Broadband Antireflection Coatings on Semiconductors. , 2016, , 319-353.		0
24	Sensitive surface plasmon resonance enabled by templated periodic arrays of gold nanodons. Nanotechnology, 2016, 27, 195601.	2.6	8
25	Photonic Crystals: Optically Bistable Macroporous Photonic Crystals Enabled by Thermoresponsive Shape Memory Polymers (Advanced Optical Materials 11/2015). Advanced Optical Materials, 2015, 3, 1508-1508.	7.3	1
26	Optically Bistable Macroporous Photonic Crystals Enabled by Thermoresponsive Shape Memory Polymers. Advanced Optical Materials, 2015, 3, 1509-1516.	7.3	48
27	Chromogenic Photonic Crystals Enabled by Novel Vapor-Responsive Shape-Memory Polymers. Advanced Materials, 2015, 27, 3696-3704.	21.0	155
28	Reconfigurable photonic crystals enabled by pressure-responsive shape-memory polymers. Nature Communications, 2015, 6, 7416.	12.8	238
29	Direct Writing of Three-Dimensional Macroporous Photonic Crystals on Pressure-Responsive Shape Memory Polymers. ACS Applied Materials & Interfaces, 2015, 7, 23650-23659.	8.0	64
30	BIOINSPIRED SELF-CLEANING ANTIREFLECTION COATINGS. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 65-95.	0.1	0
31	Self-assembled self-cleaning broadband anti-reflection coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 439, 84-100.	4.7	92
32	Self-assembled biomimetic superhydrophobic hierarchical arrays. Journal of Colloid and Interface Science, 2013, 405, 51-57.	9.4	44
33	Scalable bottom-up fabrication of colloidal photonic crystals and periodic plasmonic nanostructures. Journal of Materials Chemistry C, 2013, 1, 6031.	5.5	50
34	Generalized Fabrication of Monolayer Nonclose-Packed Colloidal Crystals with Tunable Lattice Spacing. Langmuir, 2013, 29, 7674-7681.	3.5	21
35	Biomimetic Antireflection Surfaces. , 2013, , 305-331.		12
36	High surface plasmon resonance sensitivity enabled by optical disks. Optics Letters, 2012, 37, 3681.	3.3	36

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37	Self-assembled nanoparticle antiglare coatings. <i>Optics Letters</i> , 2012, 37, 4380.	3.3	20
38	Surface plasmon resonance-enabled antibacterial digital versatile discs. <i>Applied Physics Letters</i> , 2012, 100, 063702.	3.3	10
39	Surface plasmon resonance and surface-enhanced Raman scattering sensing enabled by digital versatile discs. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	35
40	The distributions of enhancement factors in closeâ€packed and noncloseâ€packed surfaceâ€enhanced Raman substrates. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 389-395.	2.5	11
41	Biomimetic broadband antireflection gratings on solar-grade multicrystalline silicon wafers. <i>Applied Physics Letters</i> , 2011, 99, 191103.	3.3	42
42	Macroporous photonic crystal-based vapor detectors created by doctor blade coating. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	27
43	Bioinspired assembly of surface-roughened nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 272-278.	9.4	23
44	Scalable fabrication of superhydrophobic hierarchical colloidal arrays. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 558-565.	9.4	34
45	Templated Fabrication of Periodic Arrays of Metallic Attoliter Petri Dishes. <i>Chemistry of Materials</i> , 2010, 22, 1768-1775.	6.7	12
46	Self-Cleaning Diffractive Macroporous Films by Doctor Blade Coating. <i>Langmuir</i> , 2010, 26, 12598-12604.	3.5	63
47	Large-scale assembly of periodic nanostructures with metastable square lattices. <i>Journal of Vacuum Science &amp; Technology B</i> , 2009, 27, 1043.	1.3	17
48	Electrophoretic deposition of biomimetic nanocomposites. <i>Electrochemistry Communications</i> , 2009, 11, 14-17.	4.7	19
49	Electrophoretic co-deposition of biomimetic nanoplateletâ€polyelectrolyte composites. <i>Electrochemistry Communications</i> , 2009, 11, 1635-1638.	4.7	18
50	Bioinspired Assembly of Colloidal Nanoplatelets by Electric Field. <i>Chemistry of Materials</i> , 2009, 21, 2039-2044.	6.7	76
51	Bioinspired Selfâ€Cleaning Antireflection Coatings. <i>Advanced Materials</i> , 2008, 20, 3914-3918.	21.0	482
52	Acclaimed defects. <i>Nature Photonics</i> , 2008, 2, 9-11.	31.4	14
53	Large-scale assembly of colloidal nanoparticles and fabrication of periodic subwavelength structures. <i>Nanotechnology</i> , 2008, 19, 475604.	2.6	92
54	Biomimetic subwavelength antireflective gratings on GaAs. <i>Optics Letters</i> , 2008, 33, 2224.	3.3	79

#	ARTICLE	IF	CITATIONS
55	Bioinspired broadband antireflection coatings on GaSb. Applied Physics Letters, 2008, 92, 141109.	3.3	77
56	Broadband moth-eye antireflection coatings on silicon. Applied Physics Letters, 2008, 92, .	3.3	447
57	Templated Fabrication of Periodic Binary Nanostructures. Journal of Physical Chemistry C, 2008, 112, 17586-17591.	3.1	15
58	Templated biomimetic multifunctional coatings. Applied Physics Letters, 2008, 92, .	3.3	58
59	Templated Fabrication of Periodic Metallic Nanopyramid Arrays. Chemistry of Materials, 2007, 19, 4551-4556.	6.7	92
60	Self-assembled biomimetic antireflection coatings. Applied Physics Letters, 2007, 91, .	3.3	90
61	Templated fabrication of large area subwavelength antireflection gratings on silicon. Applied Physics Letters, 2007, 91, .	3.3	137
62	Two-dimensional nonclose-packed colloidal crystals formed by spincoating. Applied Physics Letters, 2006, 89, 011908.	3.3	166
63	Wafer-scale fabrication of periodic polymer attolitre microvial arrays. Chemical Communications, 2005, , 1699.	4.1	4
64	Wafer-Scale Periodic Nanohole Arrays Templated from Two-Dimensional Nonclose-Packed Colloidal Crystals. Journal of the American Chemical Society, 2005, 127, 3710-3711.	13.7	185
65	Large-Scale Fabrication of Wafer-Size Colloidal Crystals, Macroporous Polymers and Nanocomposites by Spin-Coating. Journal of the American Chemical Society, 2004, 126, 13778-13786.	13.7	621
66	Colloidal photonic superlattices. Physical Review B, 2001, 64, .	3.2	76
67	Thickness Dependence of the Optical Properties of Ordered Silica-Air and Air-Polymer Photonic Crystals. Physical Review Letters, 1999, 83, 300-303.	7.8	313
68	Optical properties of planar colloidal crystals: Dynamical diffraction and the scalar wave approximation. Journal of Chemical Physics, 1999, 111, 345-354.	3.0	125
69	Preparation of Macroporous Metal Films from Colloidal Crystals. Journal of the American Chemical Society, 1999, 121, 7957-7958.	13.7	363