

Alvaro Blanco

List of Publications by Year in descending order

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186209

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docs citations

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times ranked

5634
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal photonic crystals formation studied by real-time light diffraction. <i>Nanophotonics</i> , 2022, 11, 3257-3267.	2.9	4
2	Emergence of Ring-Shaped Microstructures in Restricted Geometries Containing Self-Propelled, Catalytic Janus Spheres. <i>ChemNanoMat</i> , 2021, 7, 1125.	1.5	0
3	Silicon-Based Photonic Architectures from Hierarchically Porous Carbon Opals. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900396.	1.2	2
4	Vacancies in Self-Assembled Crystals: An Archetype for Clusters Statistics at the Nanoscale. <i>Small</i> , 2020, 16, e2002735.	5.2	2
5	Large area metasurfaces made with spherical silicon resonators. <i>Nanophotonics</i> , 2020, 9, 943-951.	2.9	12
6	A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. <i>Small</i> , 2019, 15, e1905290.	5.2	83
7	Template-Free, Surfactant-Mediated Orientation of Self-Assembled Supercrystals of Metal-Organic Framework Particles. <i>Small</i> , 2019, 15, e1902520.	5.2	41
8	Bare Silica Opals for Real-Time Humidity Sensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800493.	3.0	20
9	Tunable Visual Detection of Dew by Bare Artificial Opals. <i>Advanced Functional Materials</i> , 2018, 28, 1800591.	7.8	13
10	Hierarchically Porous Carbon Photonic Structures. <i>Advanced Functional Materials</i> , 2018, 28, 1703885.	7.8	15
11	Self-assembly of polyhedral metal-organic framework particles into three-dimensional ordered superstructures. <i>Nature Chemistry</i> , 2018, 10, 78-84.	6.6	298
12	Seeded Synthesis of Monodisperse Core-Shell and Hollow Carbon Spheres. <i>Small</i> , 2016, 12, 4357-4362.	5.2	27
13	Large fluctuations at the lasing threshold of solid- and liquid-state dye lasers. <i>Scientific Reports</i> , 2016, 6, 32134.	1.6	33
14	Monodisperse Silica Spheres Ensembles with Tailored Optical Resonances in the Visible. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 871-877.	1.2	12
15	Shape Memory Cellulose-Based Photonic Reflectors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31935-31940.	4.0	68
16	Engineering the Light-Transport Mean Free Path in Silica Photonic Glasses. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 352-357.	1.2	6
17	Colloidal crystals and water: Perspectives on liquid-solid nanoscale phenomena in wet particulate media. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 142-160.	7.0	14
18	Random Lasing in Novel Dye-Doped White Paints with Shape Memory. <i>Advanced Optical Materials</i> , 2015, 3, 1080-1087.	3.6	12

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19	Exploration and Exploitation of Water in Colloidal Crystals. <i>Advanced Materials</i> , 2015, 27, 2686-2714.	11.1	27
20	Shape-memory effect for self-healing and biodegradable photonic systems. , 2014, , .		0
21	Thermoresponsive Shapeâ€Memory Photonic Nanostructures. <i>Advanced Optical Materials</i> , 2014, 2, 516-521.	3.6	56
22	Nanoscale Morphology of Water in Silica Colloidal Crystals. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1136-1142.	2.1	21
23	Qualitative and Quantitative Analysis of Crystallographic Defects Present in 2D Colloidal Sphere Arrays. <i>Langmuir</i> , 2012, 28, 161-167.	1.6	12
24	Studying Light Propagation in Self-Assembled Hybrid Photonicâ€Plasmonic Crystals by Fourier Microscopy. <i>Langmuir</i> , 2012, 28, 9174-9179.	1.6	24
25	Water-Dependent Micromechanical and Rheological Properties of Silica Colloidal Crystals Studied by Nanoindentation. <i>Nano Letters</i> , 2012, 12, 4920-4924.	4.5	25
26	Photoinduced Local Heating in Silica Photonic Crystals for Fast and Reversible Switching. <i>Advanced Materials</i> , 2012, 24, 6204-6209.	11.1	10
27	One-Step-Process Composite Colloidal Monolayers and Further Processing Aiming at Porous Membranes. <i>Langmuir</i> , 2012, 28, 13172-13180.	1.6	9
28	In Situ Optical Study of Water Sorption in Silica Colloidal Crystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18222-18229.	1.5	18
29	Magnetophotonic Response of Three-Dimensional Opals. <i>ACS Nano</i> , 2011, 5, 2957-2963.	7.3	21
30	Three Regimes of Water Adsorption in Annealed Silica Opals and Optical Assessment. <i>Langmuir</i> , 2011, 27, 13992-13995.	1.6	20
31	Light Emission from Nanocrystalline Si Inverse Opals and Controlled Passivation by Atomic Layer Deposited Al ₂ O ₃ . <i>Advanced Materials</i> , 2011, 23, 5219-5223.	11.1	17
32	Ultrathin conformal coating for complex magneto-photonic structures. <i>Nanoscale</i> , 2011, 3, 4811.	2.8	12
33	Waterâ€Dependent Photonic Bandgap in Silica Artificial Opals. <i>Small</i> , 2011, 7, 1838-1845.	5.2	33
34	Nanostructuring of Azomolecules in Silica Artificial Opals for Enhanced Photoalignment. <i>Advanced Functional Materials</i> , 2011, 21, 4109-4119.	7.8	11
35	Selfâ€Assembled Photonic Structures. <i>Advanced Materials</i> , 2011, 23, 30-69.	11.1	583
36	Tunable magneto-photonic response of nickel nanostructures. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	22

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37	High Degree of Optical Tunability of Self-Assembled Photonic-Plasmonic Crystals by Filling Fraction Modification. <i>Advanced Functional Materials</i> , 2010, 20, 4338-4343.	7.8	45
38	Facile route to magnetophotonic crystals by infiltration of 3D inverse opals with magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1494-1496.	1.0	13
39	New poly(phenylenevinylene)-methyl methacrylate-based photonic crystals. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2659-2665.	2.5	4
40	Enhancement and Directionality of Spontaneous Emission in Hybrid Self-Assembled Photonic-Plasmonic Crystals. <i>Small</i> , 2010, 6, 1757-1761.	5.2	78
41	Resonance-driven random lasing. <i>Nature Photonics</i> , 2008, 2, 429-432.	15.6	261
42	Electrodeposition and optical properties of silver infiltrated photonic nanostructures. <i>Materials Letters</i> , 2008, 62, 2677-2680.	1.3	8
43	Resonant light transport through Mie modes in photonic glasses. <i>Physical Review A</i> , 2008, 78, .	1.0	62
44	Observation of Resonant Behavior in the Energy Velocity of Diffused Light. <i>Physical Review Letters</i> , 2007, 99, 233902.	2.9	73
45	Stacking patterns in self-assembly opal photonic crystals. <i>Applied Physics Letters</i> , 2007, 90, 161131.	1.5	46
46	Photonic Glass: A Novel Random Material for Light. <i>Advanced Materials</i> , 2007, 19, 2597-2602.	11.1	230
47	Silicon onion-layer periodic three dimensional nanostructures. <i>Journal of Materials Chemistry</i> , 2006, 16, 2969-2971.	6.7	7
48	Three-Dimensional Lithography of Photonic Crystals. , 2006, , 153-173.		2
49	Silicon Onion-layer Nanostructures Arranged in Three Dimensions. <i>Advanced Materials</i> , 2006, 18, 1593-1597.	11.1	25
50	Quantum Dot Thin Layers Templated on ZnO Inverse Opals. <i>Advanced Materials</i> , 2006, 18, 2768-2772.	11.1	28
51	Opals for Photonic Band-Gap Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 1143-1150.	1.9	3
52	ZnO Inverse Opals by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2005, 17, 2761-2765.	11.1	94
53	Three-dimensional face-centered-cubic photonic crystal templates by laser holography: fabrication, optical characterization, and band-structure calculations. <i>Applied Physics Letters</i> , 2003, 82, 1284-1286.	1.5	243
54	Optical study of the full photonic band gap in silicon inverse opals. <i>Applied Physics Letters</i> , 2002, 81, 4925-4927.	1.5	49

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55	Synthesis of inverse opals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 281-290.	2.3	100
56	Photonic band gap properties of CdS-in-opal systems. Applied Physics Letters, 2001, 78, 3181-3183.	1.5	40
57	Large-scale synthesis of a silicon photonic crystal with a complete three-dimensional bandgap near 1.5 micrometres. Nature, 2000, 405, 437-440.	13.7	1,512
58	Microstructural study of CdS/opal composites. Acta Materialia, 2000, 48, 4653-4657.	3.8	4
59	Silica-coated metals and semiconductors. Stabilization and nanostructuring. Pure and Applied Chemistry, 2000, 72, 257-267.	0.9	71
60	Photonic crystals for laser action. Optical Materials, 1999, 13, 187-192.	1.7	29
61	Electrophoretic Deposition To Control Artificial Opal Growth. Langmuir, 1999, 15, 4701-4704.	1.6	270
62	Bragg diffraction from indium phosphide infilled fcc silica colloidal crystals. Physical Review B, 1999, 59, 1563-1566.	1.1	93
63	Face centered cubic photonic bandgap materials based on opal-semiconductor composites. Journal of Lightwave Technology, 1999, 17, 1975-1981.	2.7	24
64	Atmospheric pressure MOCVD growth of crystalline InP in opals. Journal of Crystal Growth, 1998, 193, 9-15.	0.7	19
65	Control of the Photonic Crystal Properties of fcc-Packed Submicrometer SiO ₂ Spheres by Sintering. Advanced Materials, 1998, 10, 480-483.	11.1	309
66	CdS photoluminescence inhibition by a photonic structure. Applied Physics Letters, 1998, 73, 1781-1783.	1.5	150
67	Photonic crystal properties of packed submicrometric SiO ₂ spheres. Applied Physics Letters, 1997, 71, 1148-1150.	1.5	334
68	3D Long-range ordering in ein SiO ₂ submicrometer-sphere sintered superstructure. Advanced Materials, 1997, 9, 257-260.	11.1	350
69	Characterization of bias enhanced MWCVD diamond thin films. Materials Letters, 1996, 29, 111-115.	1.3	5