Alvaro Blanco

List of Publications by Year in descending order

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69 papers	6,164 citations	185998 28 h-index	102304 66 g-index
72 all docs	72 docs citations	72 times ranked	5634 citing authors

#	Article	IF	Citations
1	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
2	Selfâ€Assembled Photonic Structures. Advanced Materials, 2011, 23, 30-69.	11.1	583
3	3D Long-range ordering in ein SiO2submicrometer-sphere sintered superstructure. Advanced Materials, 1997, 9, 257-260.	11.1	350
4	Photonic crystal properties of packed submicrometric SiO2 spheres. Applied Physics Letters, 1997, 71, 1148-1150.	1.5	334
5	Control of the Photonic Crystal Properties of fcc-Packed Submicrometer SiO2 Spheres by Sintering. Advanced Materials, 1998, 10, 480-483.	11.1	309
6	Self-assembly of polyhedral metalâ€“organic framework particles into three-dimensional ordered superstructures. Nature Chemistry, 2018, 10, 78-84.	6.6	298
7	Electrophoretic Deposition To Control Artificial Opal Growth. Langmuir, 1999, 15, 4701-4704.	1.6	270
8	Resonance-driven random lasing. Nature Photonics, 2008, 2, 429-432.	15.6	261
9	Three-dimensional face-centered-cubic photonic crystal templates by laser holography: fabrication, optical characterization, and band-structure calculations. Applied Physics Letters, 2003, 82, 1284-1286.	1.5	243
10	Photonic Glass: A Novel Random Material for Light. Advanced Materials, 2007, 19, 2597-2602.	11.1	230
11	CdS photoluminescence inhibition by a photonic structure. Applied Physics Letters, 1998, 73, 1781-1783.	1.5	150
12	Synthesis of inverse opals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 281-290.	2.3	100
13	ZnO Inverse Opals by Chemical Vapor Deposition. Advanced Materials, 2005, 17, 2761-2765.	11.1	94
14	Bragg diffraction from indium phosphide infilled fcc silica colloidal crystals. Physical Review B, 1999, 59, 1563-1566.	1.1	93
15	A Selfâ€Assembled 2D Thermofunctional Material for Radiative Cooling. Small, 2019, 15, e1905290.	5.2	83
16	Enhancement and Directionality of Spontaneous Emission in Hybrid Selfâ€Assembled Photonicâ€“Plasmonic Crystals. Small, 2010, 6, 1757-1761.	5.2	78
17	Observation of Resonant Behavior in the Energy Velocity of Diffused Light. Physical Review Letters, 2007, 99, 233902.	2.9	73
18	Silica-coated metals and semiconductors. Stabilization and nanostructuring. Pure and Applied Chemistry, 2000, 72, 257-267.	0.9	71

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19	Shape Memory Cellulose-Based Photonic Reflectors. ACS Applied Materials & Interfaces, 2016, 8, 31935-31940.	4.0	68
20	Resonant light transport through Mie modes in photonic glasses. Physical Review A, 2008, 78, .	1.0	62
21	Thermoresponsive Shapeâ€Memory Photonic Nanostructures. Advanced Optical Materials, 2014, 2, 516-521.	3.6	56
22	Optical study of the full photonic band gap in silicon inverse opals. Applied Physics Letters, 2002, 81, 4925-4927.	1.5	49
23	Stacking patterns in self-assembly opal photonic crystals. Applied Physics Letters, 2007, 90, 161131.	1.5	46
24	High Degree of Optical Tunability of Selfâ€Assembled Photonicâ€Plasmonic Crystals by Filling Fraction Modification. Advanced Functional Materials, 2010, 20, 4338-4343.	7.8	45
25	Templateâ€Free, Surfactantâ€Mediated Orientation of Selfâ€Assembled Supercrystals of Metalâ€“Organic Framework Particles. Small, 2019, 15, e1902520.	5.2	41
26	Photonic band gap properties of CdS-in-opal systems. Applied Physics Letters, 2001, 78, 3181-3183.	1.5	40
27	Waterâ€Dependent Photonic Bandgap in Silica Artificial Opals. Small, 2011, 7, 1838-1845.	5.2	33
28	Large fluctuations at the lasing threshold of solid- and liquid-state dye lasers. Scientific Reports, 2016, 6, 32134.	1.6	33
29	Photonic crystals for laser action. Optical Materials, 1999, 13, 187-192.	1.7	29
30	Quantum Dot Thin Layers Templated on ZnO Inverse Opals. Advanced Materials, 2006, 18, 2768-2772.	11.1	28
31	Exploration and Exploitation of Water in Colloidal Crystals. Advanced Materials, 2015, 27, 2686-2714.	11.1	27
32	Seeded Synthesis of Monodisperse Coreâ€“Shell and Hollow Carbon Spheres. Small, 2016, 12, 4357-4362.	5.2	27
33	Silicon Onion-Layer Nanostructures Arranged in Three Dimensions. Advanced Materials, 2006, 18, 1593-1597.	11.1	25
34	Water-Dependent Micromechanical and Rheological Properties of Silica Colloidal Crystals Studied by Nanoindentation. Nano Letters, 2012, 12, 4920-4924.	4.5	25
35	Face centered cubic photonic bandgap materials based on opal-semiconductor composites. Journal of Lightwave Technology, 1999, 17, 1975-1981.	2.7	24
36	Studying Light Propagation in Self-Assembled Hybrid Photonicâ€“Plasmonic Crystals by Fourier Microscopy. Langmuir, 2012, 28, 9174-9179.	1.6	24

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37	Tunable magneto-photonic response of nickel nanostructures. Applied Physics Letters, 2011, 99, .	1.5	22
38	Magnetophotonic Response of Three-Dimensional Opals. ACS Nano, 2011, 5, 2957-2963.	7.3	21
39	Nanoscale Morphology of Water in Silica Colloidal Crystals. Journal of Physical Chemistry Letters, 2013, 4, 1136-1142.	2.1	21
40	Three Regimes of Water Adsorption in Annealed Silica Opals and Optical Assessment. Langmuir, 2011, 27, 13992-13995.	1.6	20
41	Bare Silica Opals for Realâ€Time Humidity Sensing. Advanced Materials Technologies, 2019, 4, 1800493.	3.0	20
42	Atmospheric pressure MOCVD growth of crystalline InP in opals. Journal of Crystal Growth, 1998, 193, 9-15.	0.7	19
43	In Situ Optical Study of Water Sorption in Silica Colloidal Crystals. Journal of Physical Chemistry C, 2012, 116, 18222-18229.	1.5	18
44	Light Emission from Nanocrystalline Si Inverse Opals and Controlled Passivation by Atomic Layer Deposited Al₂O₃. Advanced Materials, 2011, 23, 5219-5223.	11.1	17
45	Hierarchically Porous Carbon Photonic Structures. Advanced Functional Materials, 2018, 28, 1703885.	7.8	15
46	Colloidal crystals and water: Perspectives on liquidâ€“solid nanoscale phenomena in wet particulate media. Advances in Colloid and Interface Science, 2016, 234, 142-160.	7.0	14
47	Facile route to magnetophotonic crystals by infiltration of 3D inverse opals with magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 1494-1496.	1.0	13
48	Tunable Visual Detection of Dew by Bare Artificial Opals. Advanced Functional Materials, 2018, 28, 1800591.	7.8	13
49	Ultrathin conformal coating for complex magneto-photonic structures. Nanoscale, 2011, 3, 4811.	2.8	12
50	Qualitative and Quantitative Analysis of Crystallographic Defects Present in 2D Colloidal Sphere Arrays. Langmuir, 2012, 28, 161-167.	1.6	12
51	Random Lasing in Novel Dyeâ€Doped White Paints with Shape Memory. Advanced Optical Materials, 2015, 3, 1080-1087.	3.6	12
52	Monodisperse Silica Spheres Ensembles with Tailored Optical Resonances in the Visible. Particle and Particle Systems Characterization, 2016, 33, 871-877.	1.2	12
53	Large area metasurfaces made with spherical silicon resonators. Nanophotonics, 2020, 9, 943-951.	2.9	12
54	Nanostructuring of Azomolecules in Silica Artificial Opals for Enhanced Photoalignment. Advanced Functional Materials, 2011, 21, 4109-4119.	7.8	11

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55	Photoinduced Local Heating in Silica Photonic Crystals for Fast and Reversible Switching. Advanced Materials, 2012, 24, 6204-6209.	11.1	10
56	One-Step-Process Composite Colloidal Monolayers and Further Processing Aiming at Porous Membranes. Langmuir, 2012, 28, 13172-13180.	1.6	9
57	Electrodeposition and optical properties of silver infiltrated photonic nanostructures. Materials Letters, 2008, 62, 2677-2680.	1.3	8
58	Silicon onion-layer periodic three dimensional nanostructures. Journal of Materials Chemistry, 2006, 16, 2969-2971.	6.7	7
59	Engineering the Lightâ€Transport Mean Free Path in Silica Photonic Glasses. Particle and Particle Systems Characterization, 2016, 33, 352-357.	1.2	6
60	Characterization of bias enhanced MWCVD diamond thin films. Materials Letters, 1996, 29, 111-115.	1.3	5
61	Microstructural study of CdS/opal composites. Acta Materialia, 2000, 48, 4653-4657.	3.8	4
62	New poly(phenylenevinylene)â€methyl methacrylateâ€based photonic crystals. Journal of Polymer Science Part A, 2010, 48, 2659-2665.	2.5	4
63	Colloidal photonic crystals formation studied by real-time light diffraction. Nanophotonics, 2022, 11, 3257-3267.	2.9	4
64	Opals for Photonic Band-Gap Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1143-1150.	1.9	3
65	Three-Dimensional Lithography of Photonic Crystals. , 2006, , 153-173.		2
66	Siliconâ€Based Photonic Architectures from Hierarchically Porous Carbon Opals. Particle and Particle Systems Characterization, 2020, 37, 1900396.	1.2	2
67	Vacancies in Selfâ€Assembled Crystals: An Archetype for Clusters Statistics at the Nanoscale. Small, 2020, 16, e2002735.	5.2	2
68	Shape-memory effect for self-healing and biodegradable photonic systems. , 2014, , .		0
69	Emergence of Ringâ€Shaped Microstructures in Restricted Geometries Containing Selfâ€Propelled, Catalytic Janus Spheres. ChemNanoMat, 2021, 7, 1125.	1.5	0