Isaac SuÃ¡rez

List of Publications by Year
in descending order

77 papers	1,518 citations	346980 22 h-index	371746 37 g-index
79 all docs	79 docs citations	79 times ranked	3115 citing authors

#	Article	IF	Citations
1	Directional and Polarized Lasing Action on Pbâ€free FASnI₃ Integrated in Flexible Optical Waveguides. Advanced Optical Materials, 2022, 10, .	3.6	8
2	Inhomogeneous Broadening of Photoluminescence Spectra and Kinetics of Nanometer-Thick (Phenethylammonium)₂PbI₄ Perovskite Thin Films: Implications for Optoelectronics. ACS Applied Nano Materials, 2021, 4, 6170-6177.	2.4	12
3	Recycled Photons Traveling Several Millimeters in Waveguides Based on CsPbBr₃ Perovskite Nanocrystals. Advanced Optical Materials, 2021, 9, 2100807.	3.6	7
4	Lead halide perovskite nanocrystals: optical properties and nanophotonics. , 2021, , .		0
5	Generation of Amplified Spontaneous Emission in Lead Halide Perovskite Semiconductors. , 2021, , 1-40.		0
6	Role of Self-Absorption in the Photoluminescence Waveguided along CsPbBr3 Perovskite Nanocrystals Thin Films. , 2020, , .		0
7	Purcell Enhancement and Wavelength Shift of Emitted Light by CsPbI₃ Perovskite Nanocrystals Coupled to Hyperbolic Metamaterials. ACS Photonics, 2020, 7, 3152-3160.	3.2	22
8	Mechanisms of Spontaneous and Amplified Spontaneous Emission in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>CH</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>NH</mml:mi><mml:mi><mml:mrow mathvariant="normal">I</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Perovskite Thin Films Integrated in an Optical Waveguide. Physical Review Applied, 2020, 13, .	4.6	10
9	Enhanced Nonlinear Optical Coefficients of MAPbI3 Thin Films by Bismuth Doping. Journal of Physical Chemistry Letters, 2020, 11, 2188-2194.	2.1	15
10	Interpretation of the photoluminescence decay kinetics in metal halide perovskite nanocrystals and thin polycrystalline films. Journal of Luminescence, 2020, 221, 117092.	1.5	30
11	Enhanced nanoscopy of individual CsPbBr3 perovskite nanocrystals using dielectric sub-micrometric antennas. APL Materials, 2020, 8, 021109.	2.2	9
12	Amplified Spontaneous Emission in Thin Films of CsPbX₃ Perovskite Nanocrystals. , 2019, , .		1
13	Single-Exciton Amplified Spontaneous Emission in Thin Films of CsPbX₃ (X = Br, I) Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 6389-6398.	2.1	46
14	Optical Amplification in Hollow-Core Negative-Curvature Fibers Doped with Perovskite CsPbBr3 Nanocrystals. Nanomaterials, 2019, 9, 868.	1.9	5
15	Outstanding nonlinear optical properties of methylammonium- and Cs-PbX3 (X = Br, I, and Brâ€“I) perovskites: Polycrystalline thin films and nanoparticles. APL Materials, 2019, 7, .	2.2	53
16	Structural characterization of bulk and nanoparticle lead halide perovskite thin films by (S)TEM techniques. Nanotechnology, 2019, 30, 135701.	1.3	5
17	Integrated Optical Amplifierâ€“Photodetector on a Wearable Nanocellulose Substrate. Advanced Optical Materials, 2018, 6, 1800201.	3.6	24
18	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. Physical Chemistry Chemical Physics, 2018, 20, 30189-30199.	1.3	22

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19	Highly Anisotropic Wave Propagation in All-Dielectric Active Waveguides. , 2018, , .		0
20	Polymer Halide Perovskites-Waveguides Integrated in Nanocellulose as a Wearable Amplifier-Photodetector System. , 2018, , .		2
21	Charge Transport in Trap-Sensitized Infrared PbS Quantum-Dot-Based Photoconductors: Pros and Cons. Nanomaterials, 2018, 8, 677.	1.9	23
22	Toward Metal Halide Perovskite Nonlinear Photonics. Journal of Physical Chemistry Letters, 2018, 9, 5612-5623.	2.1	73
23	Optical Optimization of the TiO₂ Mesoporous Layer in Perovskite Solar Cells by the Addition of SiO₂ Nanoparticles. ACS Omega, 2018, 3, 9798-9804.	1.6	18
24	Propagation length enhancement of surface plasmon polaritons in gold nano-/micro-waveguides by the interference with photonic modes in the surrounding active dielectrics. Nanophotonics, 2017, 6, 1109-1120.	2.9	19
25	Multilayers of CdSe/CdS/ZnCdS Core/Wings/Shell Nanoplatelets Integrated in a Polymer Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	1.9	9
26	Delayed Luminescence in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 13381-13390.	1.5	148
27	Efficient Optical Amplification in a Sandwich-Type Active-Passive Polymer Waveguide Containing Perylenediimides. ACS Photonics, 2017, 4, 114-120.	3.2	24
28	Enhancement of the Performance of Perovskite Solar Cells, LEDs, and Optical Amplifiers by Antiâ€Solvent Additive Deposition. Advanced Materials, 2017, 29, 1604056.	11.1	63
29	Purcell-enhancement of the radiative PL decay in perylenediimides by coupling with silver nanoparticles into waveguide modes. Applied Physics Letters, 2017, 111, .	1.5	9
30	Optimization of semiconductor halide perovskite layers to implement waveguide amplifiers. , 2017, , .		0
31	Metalenses with high-NA, enhanced resolution and apodization. , 2017, , .		0
32	Single step deposition of an interacting layer of a perovskite matrix with embedded quantum dots. Nanoscale, 2016, 8, 14379-14383.	2.8	29
33	Active photonic devices based on colloidal semiconductor nanocrystals and organometallic halide perovskites. EPJ Applied Physics, 2016, 75, 30001.	0.3	19
34	Halide perovskite amplifiers integrated in polymer waveguides. , 2016, , .		0
35	An advance Towards the Synthesis of Ag Nanorod Arrays with Controlled Surface Roughness for SERS Substrates. Materials Today: Proceedings, 2016, 3, 294-302.	0.9	3
36	Continuous Broadband MWP True-Time Delay With PbS-PMMA and PbS-SU8 Waveguides. IEEE Photonics Technology Letters, 2016, 28, 1657-1660.	1.3	3

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37	Tunable light emission by exciplex state formation between hybrid halide perovskite and core/shell quantum dots: Implications in advanced LEDs and photovoltaics. Science Advances, 2016, 2, e1501104.	4.7	66
38	NANOPHOTONICS LABORATORY TEACHING EXPERIMENTS OPEN TO SENIOR UNDERGRADUATE STUDENTS AND GRADUATE STUDENTS. , 2016, , .		0
39	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. Advanced Materials, 2015, 27, 6157-6162.	11.1	83
40	Integration of solution processed materials in polymer waveguides. , 2015, , .		0
41	MWP true time delay implemented in PbS-SU8 waveguides. , 2015, , .		0
42	UV-patternable nanocomposite containing CdSe and PbS quantum dots as miniaturized luminescent chemo-sensors. RSC Advances, 2015, 5, 19874-19883.	1.7	16
43	MWP phase shifters integrated in PbS-SU8 waveguides. Optics Express, 2015, 23, 14351.	1.7	11
44	Polymer waveguide couplers based on metal nanoparticleâ€“polymer nanocomposites. Nanotechnology, 2015, 26, 475201.	1.3	12
45	Efficient excitation of photoluminescence in a two-dimensional waveguide consisting of a quantum dot-polymer sandwich-type structure. Optics Letters, 2014, 39, 4962.	1.7	17
46	Plasmonic optical sensors printed from Agâ€“PVA nanoinks. Journal of Materials Chemistry C, 2014, 2, 908-915.	2.7	37
47	Colloidal Quantum Dots-PMMA Waveguides as Integrable Microwave Photonic Phase Shifters. IEEE Photonics Technology Letters, 2014, 26, 402-404.	1.3	10
48	Photon plasmon coupling in nanocomposite plasmonic waveguides. , 2014, , .		1
49	Quantum-Dot Double Layer Polymer Waveguides by Evanescent Light Coupling. Journal of Lightwave Technology, 2013, 31, 2515-2525.	2.7	25
50	Integrable microwave photonic phase-shifter based on Colloidal Quantum Dots-PMMA waveguide. , 2013, , .		0
51	Color Tuning and White Light by Dispersing CdSe, CdTe, and CdS in PMMA Nanocomposite Waveguides. IEEE Photonics Journal, 2013, 5, 2201412-2201412.	1.0	21
52	Method for improving the electrical insulating properties of wet thermal oxide of AlAsSb on GaSb substrates. Applied Physics Letters, 2013, 103, .	1.5	4
53	Plasmonic Communications: Light on a Wire. Optics and Photonics News, 2013, 24, 28.	0.4	98
54	The effect of high-In content capping layers on low-density bimodal-sized InAs quantum dots. Journal of Applied Physics, 2013, 113, 194306.	1.1	7

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55	Integrated microwave photonic phase-shifters based on colloidal quantum dots-PMMA nanocomposite waveguides. , 2013, , .		0
56	Light coupling from active polymer layers to hybrid dielectric-plasmonic waveguides. , 2013, , .		1
57	Dielectric and plasmonic waveguides based on quantum dots embedded in polymers. Optica Pura Y Aplicada, 2013, 46, 303-308.	0.0	0
58	Surface plasmon-polariton amplifiers. , 2012, , .		2
59	Size dependent carrier thermal escape and transfer in bimodally distributed self assembled InAs/GaAs quantum dots. Journal of Applied Physics, 2012, 111, .	1.1	19
60	Polymer/QDs Nanocomposites for Waveguiding Applications. Journal of Nanomaterials, 2012, 2012, 1-9.	1.5	43
61	Temperature Sensor Based on Colloidal Quantum Dotsâ€“PMMA Nanocomposite Waveguides. IEEE Sensors Journal, 2012, 12, 3069-3074.	2.4	26
62	Highly-sensitive anisotropic porous silicon based optical sensors. Proceedings of SPIE, 2012, , .	0.8	7
63	Colloidal QDs-polymer nanocomposites. Proceedings of SPIE, 2012, , .	0.8	0
64	Simulation of surface-modified porous silicon photonic crystals for biosensing applications. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 304-311.	1.0	16
65	Silicon Nanocrystals Produced by Nanosecond Laser Ablation in an Organic Liquid. Journal of Physical Chemistry C, 2011, 115, 5147-5151.	1.5	66
66	Birefringent porous silicon membranes for optical sensing. Optics Express, 2011, 19, 26106.	1.7	39
67	Photoluminescence waveguiding in CdSe and CdTe QDsâ€“PMMA nanocomposite films. Nanotechnology, 2011, 22, 435202.	1.3	66
68	MBE growth and properties of lowâ€density InAs/GaAs quantum dot structures. Crystal Research and Technology, 2011, 46, 801-804.	0.6	6
69	Single quantum dot emission at telecom wavelengths from metamorphic InAs/InGaAs nanostructures grown on GaAs substrates. Applied Physics Letters, 2011, 98, .	1.5	50
70	Detailed Study of the Two Steps for Fabricating LiNbO3:Zn Optical Waveguides. Applied Physics Express, 2009, 2, 022202.	1.1	4
71	Optimal control of AlAs oxidation via digital alloy heterostructure compositions. Journal Physics D: Applied Physics, 2009, 42, 175105.	1.3	10
72	Real-timein situmonitoring of wet thermal oxidation for precise confinement in VCSELs. Semiconductor Science and Technology, 2008, 23, 105021.	1.0	22

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73	Structure-induced effects on the selective wet thermal oxidation of digital AlxGa1â€“xAs alloys. Journal of Materials Research, 2008, 23, 3006-3012.	1.2	4
74	Study and fabrication of buried oxide layers in GaAs/AlAs structures for confinement engineering in photonic devices. Proceedings of SPIE, 2008, , .	0.8	0
75	Integrated electro-optic Machâ€“Zehnder modulator fabricated by vapour Zn-diffusion in LiNbO3. Microwave and Optical Technology Letters, 2007, 49, 1194-1196.	0.9	4
76	Guided-wave acousto-optic diffraction in Zn:LiNbO3. Electronics Letters, 2006, 42, 1294.	0.5	7
77	Antibody binding on LiNbO3:Zn waveguides for biosensor applications. Sensors and Actuators B: Chemical, 2005, 107, 88-92.	4.0	7