

Moisés Garçon Escrivão

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7807879/publications.pdf>

Version: 2024-02-01

39
papers

1,140
citations

687363

13
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1816
citing authors

#	ARTICLE	IF	CITATIONS
1	Black silicon solar cells with interdigitated back-contacts achieve 22.1% efficiency. Nature Nanotechnology, 2015, 10, 624-628.	31.5	512
2	Coherent thermal infrared emission by two-dimensional silicon carbide gratings. Physical Review B, 2012, 86, .	3.2	82
3	All-silicon spherical-Mie-resonator photodiode with spectral response in the infrared region. Nature Communications, 2014, 5, 3440.	12.8	75
4	Characterization of a-Si:H \cdot c-Si interfaces by effective-lifetime measurements. Journal of Applied Physics, 2005, 98, 093711.	2.5	49
5	Black-Silicon Ultraviolet Photodiodes Achieve External Quantum Efficiency above 130%. Physical Review Letters, 2020, 125, 117702.	7.8	49
6	Three-dimensional metallo-dielectric selective thermal emitters with high-temperature stability for thermophotovoltaic applications. Solar Energy Materials and Solar Cells, 2015, 134, 22-28.	6.2	43
7	Porous Silicon Microcavities Based Photonic Barcodes. Advanced Materials, 2011, 23, 3022-3025.	21.0	32
8	Crystalline silicon surface passivation with amorphous SiCx:H films deposited by plasma-enhanced chemical-vapor deposition. Journal of Applied Physics, 2005, 98, 114912.	2.5	24
9	Tuning the shape of macroporous silicon. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3237-3242.	1.8	21
10	Effect of amorphous silicon carbide layer thickness on the passivation quality of crystalline silicon surface. Applied Physics Letters, 2005, 87, 202109.	3.3	19
11	â€œSilicon millefeuilleâ€ From a silicon wafer to multiple thin crystalline films in a single step. Applied Physics Letters, 2013, 102, .	3.3	18
12	Nanostructured Germanium with >99% Absorption at 300â€“1600 nm Wavelengths. Advanced Optical Materials, 2020, 8, 2000047.	7.3	18
13	Crystalline silicon surface passivation by amorphous silicon carbide films. Solar Energy Materials and Solar Cells, 2007, 91, 174-179.	6.2	14
14	Light harvesting by a spherical silicon microcavity. Journal of Applied Physics, 2016, 119, .	2.5	14
15	Improving selective thermal emission properties of three-dimensional macroporous silicon through porosity tuning. Applied Physics Letters, 2008, 93, 081913.	3.3	13
16	Optical properties of 3D macroporous silicon structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 275-280.	3.5	12
17	Thermal emission of macroporous silicon chirped photonic crystals. Optics Letters, 2010, 35, 3348.	3.3	11
18	Controlling Plateau-Rayleigh instabilities during the reorganization of silicon macropores in the Silicon Millefeuille process. Scientific Reports, 2017, 7, 7233.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Enabling silicon-on-silicon photonics with pedestalled Mie resonators. <i>Nanoscale</i> , 2018, 10, 14406-14413.	5.6	10
20	Infrared thermal emission in macroporous silicon three-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	9
21	3D metallo-dielectric structures combining electrochemical and electroplating techniques. <i>Microelectronic Engineering</i> , 2010, 87, 1458-1462.	2.4	9
22	Silicon colloids: A new enabling nanomaterial. <i>Journal of Applied Physics</i> , 2011, 109, 102424.	2.5	9
23	Spherical silicon photonic microcavities: From amorphous to polycrystalline. <i>Physical Review B</i> , 2016, 93, .	3.2	9
24	Black silicon back-contact module with wide light acceptance angle. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 210-216.	8.1	8
25	Textured PDMS Films Applied to Thin Crystalline Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 351-357.	2.5	7
26	Empirical demonstration of CO ₂ detection using macroporous silicon photonic crystals as selective thermal emitters. <i>Optics Letters</i> , 2019, 44, 4535.	3.3	7
27	In situ size sorting in CVD synthesis of Si microspheres. <i>Scientific Reports</i> , 2016, 6, 38719.	3.3	6
28	The Effect of Absorption Losses on the Optical Behaviour of Macroporous Silicon Photonic Crystal Selective Filters. <i>Journal of Lightwave Technology</i> , 2016, 34, 1281-1287.	4.6	6
29	Thermal Emission of Silicon at Near-Infrared Frequencies Mediated by Mie Resonances. <i>ACS Photonics</i> , 2019, 6, 3174-3179.	6.6	6
30	Influence of a Gold Seed in Transparent V ₂ O ₅ /Ag/V ₂ O ₅ Selective Contacts for Dopant-Free Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 72-77.	2.5	6
31	Characterization of bifacial heterojunction silicon solar cells obtained by hot-wire CVD. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1953-1957.	3.1	5
32	Porous silicon microcavities: synthesis, characterization, and application to photonic barcode devices. <i>Nanoscale Research Letters</i> , 2012, 7, 497.	5.7	5
33	Emissive properties of SiO ₂ thin films through photonic windows. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	5
34	c-Si surface passivation for photovoltaic applications by means of antireflective amorphous silicon carbide layers. , 2007, , .		4
35	Direct etching at the nanoscale through nanoparticle-directed capillary condensation. <i>Nanoscale</i> , 2020, 12, 9240-9245.	5.6	4
36	Impact of doping and silicon substrate resistivity on the blistering of atomic-layer-deposited aluminium oxide. <i>Applied Surface Science</i> , 2020, 522, 146400.	6.1	4

#	ARTICLE	IF	CITATIONS
37	Towards more complex shapes of macroporous silicon. , 2007, , .		2
38	Fixed charge density in dielectrics deposited on c-Si using space charge region dominated lifetime measurements. Journal of Applied Physics, 2007, 101, .	2.5	2
39	Post-etching shaping of macroporous silicon. Proceedings of SPIE, 2007, , .	0.8	1