Marina S Leite

List of Publications by Year
in descending order

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Version: 2024-02-01

79 papers	2,314 citations	257101 24 h-index	214527 47 g-index
86 all docs	86 docs citations	86 times ranked	3715 citing authors

#	Article	IF	Citations
1	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	19.8	797
2	Noble Metal Alloys for Plasmonics. ACS Photonics, 2016, 3, 507-513.	3.2	140
3	Real-Time Nanoscale Open-Circuit Voltage Dynamics of Perovskite Solar Cells. Nano Letters, 2017, 17, 2554-2560.	4.5	111
4	Towards an optimized all lattice-matched InAlAs/InGaAsP/InGaAs multijunction solar cell with efficiency >50%. Applied Physics Letters, 2013, 102, .	1.5	91
5	Nanoimaging of Openâ€Circuit Voltage in Photovoltaic Devices. Advanced Energy Materials, 2015, 5, 1501142.	10.2	79
6	Machine Learning for Perovskites' Reap-Rest-Recovery Cycle. Joule, 2019, 3, 325-337.	11.7	62
7	Nanoscale Imaging of Photocurrent and Efficiency in CdTe Solar Cells. ACS Nano, 2014, 8, 11883-11890.	7.3	60
8	Machine Learning Roadmap for Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2021, 12, 7866-7877.	2.1	51
9	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 3463-3469.	2.1	50
10	From Microparticles to Nanowires and Back: Radical Transformations in Plated Li Metal Morphology Revealed via in Situ Scanning Electron Microscopy. Nano Letters, 2018, 18, 1644-1650.	4.5	47
11	Nearâ€Field Optical Properties of Fully Alloyed Noble Metal Nanoparticles. Advanced Optical Materials, 2017, 5, 1600568.	3.6	44
12	Evolution of Thermodynamic Potentials in Closed and Open Nanocrystalline Systems: Ge-Si:Si(001) Islands. Physical Review Letters, 2008, 100, 226101.	2.9	42
13	Insights into capacity loss mechanisms of all-solid-state Li-ion batteries with Al anodes. Journal of Materials Chemistry A, 2014, 2, 20552-20559.	5.2	39
14	Imaging Energy Harvesting and Storage Systems at the Nanoscale. ACS Energy Letters, 2017, 2, 2761-2777.	8.8	39
15	Alloying: A Platform for Metallic Materials with On-Demand Optical Response. Accounts of Chemical Research, 2019, 52, 2881-2891.	7.6	38
16	Local electrical characterization of cadmium telluride solar cells using low-energy electron beam. Solar Energy Materials and Solar Cells, 2013, 117, 499-504.	3.0	37
17	Alloying Mechanisms for Epitaxial Nanocrystals. Physical Review Letters, 2007, 98, 165901.	2.9	36
18	Lithographyâ€Free, Omnidirectional, CMOSâ€Compatible AlCu Alloys for Thinâ€Film Superabsorbers. Advanced Optical Materials, 2018, 6, 1700830.	3.6	34

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19	Mesoscale Functional Imaging of Materials for Photovoltaics. ACS Energy Letters, 2017, 2, 1825-1834.	8.8	33
20	Wide-band-gap InAlAs solar cell for an alternative multijunction approach. Applied Physics Letters, 2011, 98, 093502.	1.5	31
21	Near-IR Imaging Based on Hot Carrier Generation in Nanometer-Scale Optical Coatings. ACS Photonics, 2018, 5, 306-311.	3.2	29
22	Structureâ€“Property-Performance Relationship of Ultrathin Pdâ€“Au Alloy Catalyst Layers for Low-Temperature Ethanol Oxidation in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 24919-24932.	4.0	27
23	Mapping the Local Photoelectronic Properties of Polycrystalline Solar Cells Through High Resolution Laser-Beam-Induced Current Microscopy. IEEE Journal of Photovoltaics, 2014, 4, 311-316.	1.5	26
24	Surface/Interface Effects on High-Performance Thin-Film All-Solid-State Li-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 26007-26011.	4.0	26
25	Demonstration of Resonance Coupling in Scalable Dielectric Microresonator Coatings for Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 24536-24542.	4.0	23
26	Toward clean suspended CVD graphene. RSC Advances, 2016, 6, 83954-83962.	1.7	22
27	Band Structure Engineering by Alloying for Photonics. Advanced Optical Materials, 2018, 6, 1800218.	3.6	21
28	Cesium-Incorporated Triple Cation Perovskites Deliver Fully Reversible and Stable Nanoscale Voltage Response. ACS Nano, 2019, 13, 1538-1546.	7.3	21
29	Imaging Metal Halide Perovskites Material and Properties at the Nanoscale. Advanced Energy Materials, 2020, 10, 1903161.	10.2	21
30	Revealing Quantitative 3D Chemical Arrangement on Geâ^'Si Nanostructures. Journal of Physical Chemistry C, 2009, 113, 9018-9022.	1.5	18
31	Magnesium for Transient Photonics. ACS Photonics, 2019, 6, 272-278.	3.2	18
32	In Situ Optical and Stress Characterization of Alloyed Pd_xAu_{1â€“x} Hydrides. ACS Applied Materials & Interfaces, 2019, 11, 45057-45067.	4.0	17
33	Waferâ€Scale Strain Engineering of Ultrathin Semiconductor Crystalline Layers. Advanced Materials, 2011, 23, 3801-3807.	11.1	14
34	Enhanced near-Infrared Photoresponse from Nanoscale Ag-Au Alloyed Films. ACS Photonics, 2020, 7, 1689-1698.	3.2	14
35	Multiscale Functional Imaging of Interfaces through Atomic Force Microscopy Using Harmonic Mixing. ACS Applied Materials & Interfaces, 2018, 10, 28850-28859.	4.0	13
36	Quantitative Predictions of Moisture-Driven Photoemission Dynamics in Metal Halide Perovskites via Machine Learning. Journal of Physical Chemistry Letters, 2022, 13, 2254-2263.	2.1	13

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37	X-ray diffraction mapping of strain fields and chemical composition of SiGe:Si(001) quantum dot molecules. Physical Review B, 2006, 73, .	1.1	12
38	Control of Ge/Si intermixing during Ge island growth. Applied Physics Letters, 2009, 94, .	1.5	12
39	Photovoltage Tomography in Polycrystalline Solar Cells. ACS Energy Letters, 2016, 1, 899-905.	8.8	12
40	The Effects of Incident Photon Energy on the Time-Dependent Voltage Response of Lead Halide Perovskites. Chemistry of Materials, 2019, 31, 8969-8976.	3.2	10
41	Emergent Opportunities with Metallic Alloys: From Material Design to Optical Devices. Advanced Optical Materials, 2020, 8, 2001082.	3.6	10
42	Imaging and Analysis of Encapsulated Objects through Selfâ€Assembled Electron and Optically Transparent Graphene Oxide Membranes. Advanced Materials Interfaces, 2017, 4, 1600734.	1.9	8
43	Active Control of Photon Recycling for Tunable Optoelectronic Materials. Advanced Optical Materials, 2018, 6, 1701323.	3.6	6
44	InAlAs epitaxial growth for wide band gap solar cells. , 2011, , .		5
45	Intermixing during Ripening in Geâ€“Si Incoherent Epitaxial Nanocrystals. Journal of Physical Chemistry C, 2012, 116, 901-907.	1.5	5
46	Energy Spotlight. ACS Energy Letters, 2020, 5, 1328-1329.	8.8	5
47	Efficient hot-carrier dynamics in near-infrared photocatalytic metals. Physical Review B, 2022, 105, .	1.1	5
48	Photovoltaic efficiencies in lattice-matched III-V multijunction solar cells with unconventional lattice parameters. , 2011, , .		4
49	High-resolution local current measurement of CdTe solar cells. , 2012, , .		4
50	Correlated Electrical and Chemical Nanoscale Properties in Potassiumâ€Passivated, Tripleâ€Cation Perovskite Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000515.	1.9	4
51	Control of hot-carrier relaxation time in Au-Ag thin films through alloying. Optics Express, 2020, 28, 33528.	1.7	3
52	Reactive epitaxy of metallic hafnium silicide nanocrystals. Applied Physics Letters, 2008, 93, 013107.	1.5	2
53	Increased cell efficiency in InGaAs thin film solar cells with dielectric and metal back reflectors. , 2009, , .		2
54	Assessing local voltage in CIGS solar cells by nanoscale resolved Kelvin Probe Force Microscopy and sub-micron photoluminescence. , 2014, , .		2

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55	Optical Response of Nanostructures: From Pure to Alloyed Metals. , 2019, , 87-103.		2
56	Energy Spotlight. ACS Energy Letters, 2020, 5, 3876-3878.	8.8	2
57	Selective etching properties of Mg thin films and micro/nanostructures for dynamic photonics [Invited]. Optical Materials Express, 2021, 11, 1555.	1.6	2
58	Transient Structural Colors with Magnesiumâ€Based Reflective Filters. Advanced Optical Materials, 2022, 10, .	3.6	2
59	Achieving Scalable Nearâ€Zeroâ€Index Materials. Advanced Photonics Research, 0, , 2200109.	1.7	2
60	Device modeling of an optimized monolithic all lattice-matched 3-junction solar cell with efficiency > 50%. , 2012, , .		1
61	Imaging EQE in CIGS solar cells with high spatial resolution. , 2015, , .		1
62	Metal Alloys for Superabsorption: Lithographyâ€Free, Omnidirectional, CMOSâ€Compatible AlCu Alloys for Thinâ€Film Superabsorbers (Advanced Optical Materials 2/2018). Advanced Optical Materials, 2018, 6, 1870007.	3.6	1
63	Structural Anisotropy in Stretchable Silicon. Advanced Electronic Materials, 2019, 5, 1900003.	2.6	1
64	Metallic Alloys: Emergent Opportunities with Metallic Alloys: From Material Design to Optical Devices (Advanced Optical Materials 23/2020). Advanced Optical Materials, 2020, 8, 2070091.	3.6	1
65	Photophysical Processes in Metal Halide Perovskites. Advanced Optical Materials, 2021, 9, 2101738.	3.6	1
66	Mapping the performance of solar cells with nanoscale resolution. SPIE Newsroom, 0, , .	0.1	1
67	Structural effects on Au and Ag colloidal nanoparticles. , 2004, , 131-134.		0
68	Mapping V<inf>oc</inf> in polycrystalline solar cells with nanoscale spatial resolution. , 2016, , .		0
69	Li Diffusion in All-Solid-State Batteries Imaged Through Optical and Electron Transparent Electrodes. Microscopy and Microanalysis, 2016, 22, 1352-1353.	0.2	0
70	Encapsulated Object Analysis: Imaging and Analysis of Encapsulated Objects through Selfâ€Assembled Electron and Optically Transparent Graphene Oxide Membranes (Adv. Mater. Interfaces 2/2017). Advanced Materials Interfaces, 2017, 4, .	1.9	0
71	Resonant and non-resonant dielectric coatings for high efficiency solar cells. , 2017, , .		0
72	Nano-Imaging of Performance in Photovoltaics. , 2017, , .		0

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73	Imaging the Effect of CdSe Window Layers in CdTe Photovoltaics. , 2017, , .		0
74	New Microscopic Methods for the Functional Imaging of Energy Materials at the Nanoscale. Microscopy and Microanalysis, 2018, 24, 1950-1951.	0.2	0
75	Energy Spotlight. ACS Energy Letters, 2020, 5, 2454-2455.	8.8	0
76	Waterâ€Induced and Wavelengthâ€Dependent Light Absorption and Emission Dynamics in Tripleâ€Cation Halide Perovskites. Advanced Optical Materials, 2021, 9, 2100710.	3.6	0
77	Dynamic Photonics with Unconventional Materials. , 2021, , .		0
78	Emerging Materials for Photonics. , 2018, , .		0
79	A dataquake for solar cells. Nature Energy, 2022, 7, 5-6.	19.8	0