

Christopher E Petoukhoff

List of Publications by Year in descending order

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30
all docs

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docs citations

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times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Dominating Interlayer Resonant Energy Transfer in Type-II 2D Heterostructure. ACS Nano, 2022, 16, 3861-3869.	14.6	11
2	Unraveling the varied nature and roles of defects in hybrid halide perovskites with time-resolved photoemission electron microscopy. Energy and Environmental Science, 2021, 14, 6320-6328.	30.8	34
3	Strong Plasmon-Exciton Coupling in Ag Nanoparticle-Conjugated Polymer Core-Shell Hybrid Nanostructures. Polymers, 2020, 12, 2141.	4.5	3
4	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	27.8	255
5	Charge transfer dynamics in conjugated polymer/MoS ₂ /organic/2D heterojunctions. Molecular Systems Design and Engineering, 2019, 4, 929-938.	3.4	18
6	Visualizing the Creation and Healing of Traps in Perovskite Photovoltaic Films by Light Soaking and Passivation Treatments. , 2019, , .		1
7	Probing Charge Transfer States in Polymer:Fullerene - MoS ₂ van der Waals Heterostructures. , 2018, , .		1
8	Investigation of Trap States and Their Dynamics in Hybrid Organic-inorganic Mixed Cation Perovskite Films Using Time Resolved Photoemission Electron Microscopy. , 2018, , .		2
9	Pressure effects on interfacial surface contacts and performance of organic solar cells. Journal of Applied Physics, 2017, 122, .	2.5	7
10	Solution-Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. Advanced Materials, 2017, 29, 1603995.	21.0	187
11	Native-Metal-Oxide-Coated Plasmonic Electrode Metasurfaces for Nanophotonic Light Trapping and Efficient Charge Collection. , 2017, , .		0
12	Survey of Mechanical Durability of PV Backsheets. , 2017, , .		9
13	Charge Transfer and Enhanced Absorption in MoS ₂ - Organic Heterojunctions Using Plasmonic Metasurfaces. , 2017, , .		0
14	Influence of organic active layer morphology on plasmonic light-trapping. , 2016, , .		2
15	Oxidation of Planar and Plasmonic Ag Surfaces by Exposure to O ₂ /Ar Plasma for Organic Optoelectronic Applications. MRS Advances, 2016, 1, 943-948.	0.9	3
16	Effects of metal film thickness and gain on the coupling of organic semiconductor exciton emission to surface plasmon polaritons. Journal of Materials Chemistry C, 2016, 4, 10111-10119.	5.5	5
17	Effects of conjugated polymer incorporation on the morphology and energy harvesting of solution-processed, phthalocyanine-based thin films. Synthetic Metals, 2016, 220, 469-476.	3.9	1
18	Ultrafast Charge Transfer and Enhanced Absorption in MoS ₂ -Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. ACS Nano, 2016, 10, 9899-9908.	14.6	71

#	ARTICLE	IF	CITATIONS
19	Observing the interplay between surface and bulk optical nonlinearities in thin van der Waals crystals. <i>Scientific Reports</i> , 2016, 6, 22620.	3.3	42
20	Observing the Interplay Between Surface and Bulk Optical Nonlinearities in Thin Van Der Waals Crystals. , 2016, , .		0
21	Plasmonic electrodes for bulk-heterojunction organic photovoltaics: a review. <i>Journal of Photonics for Energy</i> , 2015, 5, 057002.	1.3	40
22	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. <i>Nature Communications</i> , 2015, 6, 7899.	12.8	48
23	Computational comparison of conventional and inverted organic photovoltaic performance parameters with varying metal electrode surface workfunction. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 572-583.	6.2	25
24	Absorption and scattering effects by silver nanoparticles near the interface of organic/inorganic semiconductor tandem films. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	16
25	Conjugated polymer-based photonic nanostructures. <i>Polymer Chemistry</i> , 2013, 4, 5181.	3.9	44
26	Modulating Nanoscale Defect States in Halide Perovskite Films. , 0, , .		0
27	Nanoscale Heterogeneities Limit Optoelectronic Performance in Halide Perovskites. , 0, , .		0
28	Exploring Defects in Triple Cation Mixed Halide Perovskite Thin Films Using Time-Resolved Photoemission Electron Microscopy. , 0, , .		0
29	Optimization of PCDTBT Metal-Insulator-Metal Hole-Only Photodiodes. , 0, , .		1
30	The varied nature and roles of nanoscale defects in solution processed triple cation mixed halide perovskite thin films. , 0, , .		0