

Christopher E Petoukhoff

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/854945/publications.pdf>

Version: 2024-02-01

30
papers

826
citations

840776

11
h-index

888059

17
g-index

30
all docs

30
docs citations

30
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. <i>Nature</i> , 2020, 580, 360-366.	27.8	255
2	Solution-Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. <i>Advanced Materials</i> , 2017, 29, 1603995.	21.0	187
3	Ultrafast Charge Transfer and Enhanced Absorption in MoS ₂ -Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. <i>ACS Nano</i> , 2016, 10, 9899-9908.	14.6	71
4	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. <i>Nature Communications</i> , 2015, 6, 7899.	12.8	48
5	Conjugated polymer-based photonic nanostructures. <i>Polymer Chemistry</i> , 2013, 4, 5181.	3.9	44
6	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
7	Plasmonic electrodes for bulk-heterojunction organic photovoltaics: a review. <i>Journal of Photonics for Energy</i> , 2015, 5, 057002.	1.3	40
8	Unraveling the varied nature and roles of defects in hybrid halide perovskites with time-resolved photoemission electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 6320-6328.	30.8	34
9	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
10	Charge transfer dynamics in conjugated polymer/MoS ₂ organic/2D heterojunctions. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 929-938.	3.4	18
11	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
12	Dominating Interlayer Resonant Energy Transfer in Type-II 2D Heterostructure. <i>ACS Nano</i> , 2022, 16, 3861-3869.	14.6	11
13	Survey of Mechanical Durability of PV Backsheets. , 2017, , .		9
14	Pressure effects on interfacial surface contacts and performance of organic solar cells. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	7
15	Effects of metal film thickness and gain on the coupling of organic semiconductor exciton emission to surface plasmon polaritons. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10111-10119.	5.5	5
16	Oxidation of Planar and Plasmonic Ag Surfaces by Exposure to O ₂ /Ar Plasma for Organic Optoelectronic Applications. <i>MRS Advances</i> , 2016, 1, 943-948.	0.9	3
17	Strong Plasmon-Exciton Coupling in Ag Nanoparticle-Conjugated Polymer Core-Shell Hybrid Nanostructures. <i>Polymers</i> , 2020, 12, 2141.	4.5	3
18	Influence of organic active layer morphology on plasmonic light-trapping. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
19	Investigation of Trap States and Their Dynamics in Hybrid Organic-inorganic Mixed Cation Perovskite Films Using Time Resolved Photoemission Electron Microscopy. , 2018, , .		2
20	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
21	Probing Charge Transfer States in Polymer:Fullerene π -MoS ₂ van der Waals Heterostructures. , 2018, , .		1
22	Visualizing the Creation and Healing of Traps in Perovskite Photovoltaic Films by Light Soaking and Passivation Treatments. , 2019, , .		1
23	Optimization of PCDTBT Metal-Insulator-Metal Hole-Only Photodiodes. , 0, , .		1
24	Native-Metal-Oxide-Coated Plasmonic Electrode Metasurfaces for Nanophotonic Light Trapping and Efficient Charge Collection. , 2017, , .		0
25	Observing the Interplay Between Surface and Bulk Optical Nonlinearities in Thin Van Der Waals Crystals. , 2016, , .		0
26	Charge Transfer and Enhanced Absorption in MoS ₂ - Organic Heterojunctions Using Plasmonic Metasurfaces. , 2017, , .		0
27	Modulating Nanoscale Defect States in Halide Perovskite Films. , 0, , .		0
28	Nanoscale Heterogeneities Limit Optoelectronic Performance in Halide Perovskites. , 0, , .		0
29	Exploring Defects in Triple Cation Mixed Halide Perovskite Thin Films Using Time-Resolved Photoemission Electron Microscopy. , 0, , .		0
30	The varied nature and roles of nanoscale defects in solution processed triple cation mixed halide perovskite thin films. , 0, , .		0