

Peter Cendula

List of Publications by Year in descending order

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16
papers

497
citations

933447

10
h-index

1125743

13
g-index

17
all docs

17
docs citations

17
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting Ideal Dual-Absorber Tandem Water Splitting Using Perovskite Photovoltaics and $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ Photocathodes. <i>Advanced Energy Materials</i> , 2015, 5, 1501520.	19.5	109
2	Bending and wrinkling as competing relaxation pathways for strained free-hanging films. <i>Physical Review B</i> , 2009, 79, .	3.2	72
3	Directional Roll-up of Nanomembranes Mediated by Wrinkling. <i>Nano Letters</i> , 2011, 11, 236-240.	9.1	71
4	Energy Diagram of Semiconductor/Electrolyte Junctions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 205-207.	4.6	61
5	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29599-29607.	3.1	56
6	Heterogeneous Catalytic Reactor for Hydrogen Production from Formic Acid and Its Use in Polymer Electrolyte Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6635-6643.	6.7	31
7	Elucidation of photovoltage origin and charge transport in Cu_2O heterojunctions for solar energy conversion. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2633-2641.	4.9	19
8	Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. <i>Advanced Functional Materials</i> , 2018, 28, 1702768.	14.9	18
9	Rolled-up tubes and cantilevers by releasing $\text{SrRuO}_3\text{-Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ nanomembranes. <i>Nanoscale Research Letters</i> , 2011, 6, 621.	5.7	16
10	Electronic and optical properties of quantum wells embedded in wrinkled nanomembranes. <i>Journal of Applied Physics</i> , 2012, 111, 043105.	2.5	15
11	Experimental realization of coexisting states of rolled-up and wrinkled nanomembranes by strain and etching control. <i>Nanoscale</i> , 2014, 6, 14326-14335.	5.6	9
12	Analytical Model for Photocurrent-Voltage and Impedance Response of Illuminated Semiconductor/Electrolyte Interface under Small Voltage Bias. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1269-1276.	3.1	6
13	Multi-phase modeling of non-isothermal reactive flow in fluidized bed reactors. <i>Journal of Computational and Applied Mathematics</i> , 2015, 289, 282-295.	2.0	5
14	SolCelSim: simulation of charge transport in solar cells developed in Comsol Application Builder. <i>International Journal of Modelling and Simulation</i> , 0, , 1-11.	3.3	4
15	Model-Based Investigation of Trap-Assisted Recombination in Photoelectrodes for Water Splitting. <i>Advanced Theory and Simulations</i> , 0, , 2100312.	2.8	4
16	Theory of Charge Transport in the Illuminated Semiconductor/Liquid Junctions. , 0, , .		1