

Philip A Parilla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3380101/publications.pdf>

Version: 2024-02-01

46
papers

1,723
citations

279798

23
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

3367
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature Coefficients of Perovskite Photovoltaics for Energy Yield Calculations. ACS Energy Letters, 2021, 6, 2038-2047.	17.4	43
2	Performance and reliability of In^{2+} -Ga $_{2}\text{O}_3$ Schottky barrier diodes at high temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	19
3	Fine-Tuning a Robust Metal-Organic Framework toward Enhanced Clean Energy Gas Storage. Journal of the American Chemical Society, 2021, 143, 18838-18843.	13.7	79
4	An International Laboratory Comparison Study of Volumetric and Gravimetric Hydrogen Adsorption Measurements. ChemPhysChem, 2019, 20, 1997-2009.	2.1	26
5	Negative-pressure polymorphs made by heterostructural alloying. Science Advances, 2018, 4, eaaq1442.	10.3	34
6	Experimental demonstration of a latent heat storage system for dispatchable electricity. AIP Conference Proceedings, 2018, , .	0.4	5
7	Record High Hydrogen Storage Capacity in the Metal-Organic Framework $\text{Ni}_2(\text{m-dobdc})$ at Near-Ambient Temperatures. Chemistry of Materials, 2018, 30, 8179-8189.	6.7	182
8	Techno-economic analysis of a small scale solar power tower at varied locations. AIP Conference Proceedings, 2018, , .	0.4	6
9	Experimental demonstration of a dispatchable latent heat storage system with aluminum-silicon as a phase change material. Applied Energy, 2018, 230, 1218-1229.	10.1	32
10	Reliability and heat transfer performance of a miniature high-temperature thermosyphon-based thermal valve. International Journal of Heat and Mass Transfer, 2018, 125, 1079-1086.	4.8	7
11	Solubility limits in quaternary SnTe-based alloys. RSC Advances, 2017, 7, 24747-24753.	3.6	14
12	Conduction and rectification in NbO $_x$ - and NiO-based metal-insulator-metal diodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	5
13	Thermoelectric properties of bromine filled CoSb_3 skutterudite. Journal of Materials Chemistry A, 2016, 4, 8444-8450.	10.3	36
14	The formation mechanism for printed silver-contacts for silicon solar cells. Nature Communications, 2016, 7, 11143.	12.8	106
15	Recommended volumetric capacity definitions and protocols for accurate, standardized and unambiguous metrics for hydrogen storage materials. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	25
16	An international multi-laboratory investigation of carbon-based hydrogen sorbent materials. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	20
17	Rapid thermal processing chamber for <i>in-situ</i> x-ray diffraction. Review of Scientific Instruments, 2015, 86, 013902.	1.3	15
18	Effect of extended strain fields on point defect phonon scattering in thermoelectric materials. Physical Chemistry Chemical Physics, 2015, 17, 19410-19423.	2.8	55

#	ARTICLE	IF	CITATIONS
19	Electronic Structure and Optical Properties of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4304-4308.	4.6	136
20	Impact of Hole Transport Layer Surface Properties on the Morphology of a Polymer-Fullerene Bulk Heterojunction. <i>Advanced Energy Materials</i> , 2014, 4, 1301879.	19.5	28
21	Control of the Electrical Properties in Spinel Oxides by Manipulating the Cation Disorder. <i>Advanced Functional Materials</i> , 2014, 24, 610-618.	14.9	109
22	Enhanced Electron Mobility Due to Dopant-Defect Pairing in Conductive ZnMgO. <i>Advanced Functional Materials</i> , 2014, 24, 2875-2882.	14.9	49
23	Processing-phase diagrams: a new tool for solution-deposited thin-film development applied to the $\text{In}_5\text{O}(\text{OPri})_3\text{-In}_2\text{O}_3$ system. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2360.	5.5	2
24	Highly-Tunable Nickel Cobalt Oxide as a Low-Temperature P-Type Contact in Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2013, 3, 524-531.	19.5	38
25	Development and application of an instrument for spatially resolved Seebeck coefficient measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 053905.	1.3	34
26	Combinatorial approach to correlations of properties in copper nitride. , 2013, , .		2
27	Electromechanical tuning of nanoscale MIM diodes by nanoindentation. <i>Journal of Materials Research</i> , 2013, 28, 1912-1919.	2.6	4
28	Spectroscopic Identification of Hydrogen Spillover Species in Ruthenium-Modified High Surface Area Carbons by Diffuse Reflectance Infrared Fourier Transform Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26744-26755.	3.1	32
29	Reactions and reversible hydrogenation of single-walled carbon nanotube anions. <i>Journal of Materials Research</i> , 2012, 27, 2806-2811.	2.6	2
30	A novel way to characterize Metal-Insulator-Metal devices via nanoindentation. , 2011, , .		4
31	Nano-Engineered Spacing in Graphene Sheets for Hydrogen Storage. <i>Chemistry of Materials</i> , 2011, 23, 923-925.	6.7	68
32	Metal-insulator-metal point-contact diodes as a rectifier for rectenna. , 2010, , .		4
33	Doped Bi-Se thin films for photovoltaic applications. , 2010, , .		1
34	Atmospheric pressure synthesis of In_2Se_3 , Cu_2Se , and CuInSe_2 without external selenization from solution precursors. <i>Journal of Materials Research</i> , 2009, 24, 1375-1387.	2.6	9
35	Measuring the crystallinity index of cellulose by solid state ^{13}C nuclear magnetic resonance. <i>Cellulose</i> , 2009, 16, 641-647.	4.9	207
36	HIGH-SURFACE-AREA BIOMATERIALS FOR REVERSIBLE ON-BOARD STORAGE OF NATURAL GAS AND HYDROGEN. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1041, 1.	0.1	10

#	ARTICLE	IF	CITATIONS
37	Novel Organometallic Fullerene Complexes for Vehicular Hydrogen Storage. Materials Research Society Symposia Proceedings, 2007, 1041, 1.	0.1	0
38	Formation of Nanooctahedra in Molybdenum Disulfide and Molybdenum Diselenide Using Pulsed Laser Vaporization. Journal of Physical Chemistry B, 2004, 108, 6197-6207.	2.6	82
39	Combinatorial Growth and Analysis of the Transparent Conducting Oxide ZnO/In(IZO). Macromolecular Rapid Communications, 2004, 25, 344-347.	3.9	17
40	Continuous Hot Wire Chemical Vapor Deposition of High-Density Carbon Multiwall Nanotubes. Nano Letters, 2003, 3, 1425-1429.	9.1	38
41	Adsorption of Hydrogen on Carbon Single-Walled Nanotubes as Measured by the Volumetric Technique. Materials Research Society Symposia Proceedings, 2000, 633, 14361.	0.1	2
42	Pulsed laser deposition of oriented V_2O_5 thin films. Journal of Materials Research, 2000, 15, 2249-2265.	2.6	21
43	Control and elimination of biaxial strain in laser-ablated epitaxial $Ba_xSr_{1-x}TiO_3$ films. Applied Physics Letters, 2000, 77, 3278-3280.	3.3	26
44	Li Ion diffusion measurements in crystalline and amorphous V_2O_5 thin-film battery cathodes. Materials Research Society Symposia Proceedings, 1999, 575, 103.	0.1	3
45	Cu-In-Ga-Se nanoparticle colloids as spray deposition precursors for $Cu(In, Ga)Se_2$ solar cell materials. Journal of Electronic Materials, 1998, 27, 433-437.	2.2	82
46	Pulsed Laser Deposition of Cadmium Stannate, a Spinel-Type Transparent Conducting Oxide. Materials Research Society Symposia Proceedings, 1995, 388, 51.	0.1	4