

Pablo Palacios

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1373724/publications.pdf>

Version: 2024-02-01

62
papers

1,901
citations

257450

24
h-index

254184

43
g-index

63
all docs

63
docs citations

63
times ranked

2062
citing authors

#	ARTICLE	IF	CITATIONS
1	Cation substitution effects on the structural, electronic and sun-light absorption features of all-inorganic halide perovskites. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1337-1353.	6.0	2
2	Tetrabutylammonium (TBA)-Doped Methylammonium Lead Iodide: High Quality and Stable Perovskite Thin Films. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	30
3	FLIPPED CLASSROOM AND GAMIFICATION IN THE TEACHING OF THE PHYSICS LABORATORY. <i>EDULEARN Proceedings</i> , 2022, , .	0.0	0
4	The effects of the chemical composition on the structural, thermodynamic, and mechanical properties of all-inorganic halide perovskites. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3803-3814.	6.0	7
5	Spinel-Type nitride compounds with improved features as solar cell absorbers. <i>Acta Materialia</i> , 2020, 197, 316-329.	7.9	7
6	Atomic-Scale Model and Electronic Structure of Cu ₂ O/CH ₃ NH ₃ PbI ₃ Interfaces in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44648-44657.	8.0	16
7	Band Alignment of the CuGaS ₂ Chalcopyrite Interfaces Studied by First-Principles Calculations. <i>ACS Omega</i> , 2020, 5, 3294-3301.	3.5	5
8	Transition Metal-Hyperdoped InP Semiconductors as Efficient Solar Absorber Materials. <i>Nanomaterials</i> , 2020, 10, 283.	4.1	8
9	Thermoradiative Cells Based on a p-type Cu ₃ SbSe ₄ Semiconductor: Application of a Detailed Balance Model. <i>Journal of Electronic Materials</i> , 2019, 48, 6777-6785.	2.2	4
10	Tight-binding electronic band structure and surface states of Cu-chalcopyrite semiconductors. <i>Journal of Physics Communications</i> , 2018, 2, 035021.	1.2	4
11	Influence of chromium hyperdoping on the electronic structure of CH ₃ NH ₃ PbI ₃ perovskite: a first-principles insight. <i>Scientific Reports</i> , 2018, 8, 2511.	3.3	13
12	Thermoelectric Properties of Doped-Cu ₃ SbSe ₄ Compounds: A First-Principles Insight. <i>Inorganic Chemistry</i> , 2018, 57, 7321-7333.	4.0	36
13	Theoretical band alignment in an intermediate band chalcopyrite based material. <i>Applied Surface Science</i> , 2017, 424, 132-136.	6.1	15
14	Solution-based synthesis and processing of Sn- and Bi-doped Cu ₃ SbSe ₄ nanocrystals, nanomaterials and ring-shaped thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2592-2602.	10.3	73
15	Vanadium supersaturated silicon system: a theoretical and experimental approach. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 495101.	2.8	10
16	Ferroelectric Domains May Lead to Two-Dimensional Confinement of Holes, but not of Electrons, in CH ₃ NH ₃ PbI ₃ Perovskite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26698-26705.	3.1	11
17	First principle study of V-implantation in highly-doped silicon materials. <i>Computational Materials Science</i> , 2017, 136, 207-215.	3.0	6
18	Modeling of Thermal Effect on the Electronic Properties of Photovoltaic Perovskite CH ₃ NH ₃ PbI ₃ : The Case of Tetragonal Phase. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7976-7986.	3.1	25

#	ARTICLE	IF	CITATIONS
19	Electronic band alignment at CuGaS ₂ chalcopyrite interfaces. Computational Materials Science, 2016, 121, 79-85.	3.0	16
20	Electronic and atomic structure of complex defects in Al- and Ga-highly doped ZnO films. Materials Chemistry and Physics, 2015, 160, 420-428.	4.0	8
21	Analysis of SnS ₂ hyperdoped with V proposed as efficient absorber material. Journal of Physics Condensed Matter, 2014, 26, 395501.	1.8	5
22	V-substituted In ₂ S ₃ : an intermediate band material with photocatalytic activity in the whole visible light range. Journal of Materials Chemistry A, 2014, 2, 8236-8245.	10.3	42
23	CH^3NH^3	3.2	245
24	Effect of van der Waals interaction on the properties of SnS ₂ layered semiconductor. Thin Solid Films, 2013, 535, 387-389.	1.8	33
25	Obtaining an intermediate band photovoltaic material through the Bi insertion in CdTe. Solar Energy Materials and Solar Cells, 2013, 114, 99-103.	6.2	18
26	Double Ion Implantation and Pulsed Laser Melting Processes for Third Generation Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-7.	2.5	5
27	Band gap control via tuning of inversion degree in CdIn ₂ S ₄ spinel. Applied Physics Letters, 2012, 100, .	3.3	31
28	Thermodynamics of zinc insertion in CuGaS ₂ :Ti, used as a modulator agent in an intermediate-band photovoltaic material. Computational and Theoretical Chemistry, 2011, 975, 134-137.	2.5	10
29	Screened hybrid and self-consistent GW calculations of cadmium/magnesium understanding the intermediate-band formation in partially inverse thiospinel MgIn ₂ S ₄	3.2	16
30	S^2 through many-body approaches. Physical Review B, 2011, 84, .	3.2	14
31	Intermediate band position modulated by Zn addition in Ti doped CuGaS ₂ . Thin Solid Films, 2011, 519, 7517-7521.	1.8	20
32	V-doped SnS ₂ : a new intermediate band material for a better use of the solar spectrum. Physical Chemistry Chemical Physics, 2011, 13, 20401.	2.8	80
33	Characterization of electrodeposited zinc oxide/tetrasulphonatedcopper phthalocyanines (ZnO/Ts-CuPc) hybrid films and their photoelectrochemical properties. Journal of Electroanalytical Chemistry, 2011, 653, 86-92.	3.8	9
34	Electronic structure and optical properties in ZnO:M(Co, Cd). Thin Solid Films, 2010, 518, 4568-4571.	1.8	26
35	Enhancement of optical absorption in Ga-chalcopyrite-based intermediate-band materials for high efficiency solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1903-1906.	6.2	48
36	Theoretical optoelectronic analysis of CdIn ₂ S ₄	3.2	45

#	ARTICLE	IF	CITATIONS
37	Formation of a reliable intermediate band in Si heavily coimplanted with chalcogens (S, Se, Te) and group III elements (B, Al). Physical Review B, 2010, 82, .	3.2	83
38	Assessment through first-principles calculations of an intermediate-band photovoltaic material based on Ti-implanted silicon: Interstitial versus substitutional origin. Physical Review B, 2009, 79, .	3.2	81
39	Advanced Computational Design of Intermediate-Band Photovoltaic Material V-substituted MgIn ₂ S ₄ . Materials Research Society Symposia Proceedings, 2009, 1218, 1.	0.1	1
40	First Principles Calculations of Complex Intermediate Band Materials for Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2009, 1211, 1.	0.1	0
41	Ab-initio valence band spectra of Al, In doped ZnO. Thin Solid Films, 2009, 517, 2448-2451.	1.8	41
42	Ab-initio vibrational properties of transition metal chalcopyrite alloys determined as high-efficiency intermediate-band photovoltaic materials. Thin Solid Films, 2008, 516, 7070-7074.	1.8	16
43	Optical properties of chalcopyrite-type intermediate transition metal band materials from first principles. Thin Solid Films, 2008, 516, 7055-7059.	1.8	47
44	Transition-Metal-Substituted Indium Thiospinels as Novel Intermediate-Band Materials: Prediction and Understanding of Their Electronic Properties. Physical Review Letters, 2008, 101, 046403.	7.8	129
45	Thermodynamics of the Formation of Ti- and Cr-doped CuGaS ₂ Intermediate-band Photovoltaic Materials. Journal of Physical Chemistry C, 2008, 112, 9525-9529.	3.1	50
46	Electronic structure of bulk- and Na-intercalated TiS_2 from a $\text{GGA}+U$ with the Hubbard terms obtained <i>ab initio</i> . Physical Review B, 2008, 78, .	3.2	24
47	Towards an ab-initio characterization of novel intermediate band photovoltaic materials. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	0
48	Synthesis and Spectral Properties of Nanocrystalline V-Substituted In ₂ S ₃ , a Novel Material for More Efficient Use of Solar Radiation. Chemistry of Materials, 2008, 20, 5125-5127.	6.7	95
49	Characterization by Ab Initio Calculations of an Intermediate Band Material Based on Chalcopyrite Semiconductors Substituted by Several Transition Metals. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 314.	1.8	22
50	Theoretical modelling of intermediate band solar cell materials based on metal-doped chalcopyrite compounds. Thin Solid Films, 2007, 515, 6280-6284.	1.8	96
51	First principles calculation of isolated intermediate bands formation in a transition metal-doped chalcopyrite-type semiconductor. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1395-1401.	1.8	77
52	First-principles investigation of isolated band formation in half-metallic $\text{Ti}_x\text{Ga}_{1-x}\text{P}$ ($x=0.3125$ to 0.25). Physical Review B, 2006, 73, .	3.2	56
53	Energetics of formation of TiGa ₃ As ₄ and TiGa ₃ P ₄ intermediate band materials. Journal of Chemical Physics, 2006, 124, 014711.	3.0	47
54	AB-Initio Modeling of Intermediate Band Materials Based on Metal-Doped Chalcopyrite Compounds. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
55	Properties of intermediate band materials. Solar Energy Materials and Solar Cells, 2005, 87, 323-331.	6.2	17
56	Ab-initio spin polarized electronic structure calculations for TixGanAsm photovoltaic materials. Journal of Materials Science, 2005, 40, 1383-1386.	3.7	24
57	Ab initio phonon dispersion calculations for TixGanAsm and TixGanPm compounds. Computational Materials Science, 2005, 33, 118-124.	3.0	12
58	Diseño de nuevos materiales fotovoltaicos de banda intermedia. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 345-347.	1.9	0
59	First principles characterization of direct transitions for high efficiency new photovoltaic materials. Computational Materials Science, 2003, 27, 58-64.	3.0	25
60	Atomistic Simulation of the Equation of State of SrF 2 Using Electron Gas Interionic Potentials. High Pressure Research, 2002, 22, 227-230.	1.2	3
61	Progress towards the practical implementation of the intermediate band solar cell. , 0, , .		4
62	Active Materials Based on Implanted Si for Obtaining Intermediate Band Solar Cells. Advances in Science and Technology, 0, , .	0.2	5