

Maria Bernechea

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8522077/publications.pdf>

Version: 2024-02-01

38
papers

3,728
citations

279798

23
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

6666
citing authors

#	ARTICLE	IF	CITATIONS
1	Earth-abundant non-toxic perovskite nanocrystals for solution processed solar cells. <i>Materials Advances</i> , 2021, 2, 4140-4151.	5.4	14
2	Bismuth-based nanomaterials for energy applications. , 2021, , 3-35.		0
3	Effect of oxidation temperature on the properties of NiOx layers for application in optical sensors. <i>Thin Solid Films</i> , 2021, 734, 138849.	1.8	3
4	Charge Photogeneration and Transport in AgBiS ₂ Nanocrystal Films for Photovoltaics. <i>Solar Rrl</i> , 2019, 3, 1900075.	5.8	20
5	Research Update: Bismuth based materials for photovoltaics. <i>APL Materials</i> , 2018, 6, .	5.1	79
6	Matildite versus schapbachite: First-principles investigation of the origin of photoactivity in AgBiS_2 . <i>Physical Review B</i> , 2016, 94, .		39
7	Solution-processed solar cells based on environmentally friendly AgBiS ₂ nanocrystals. <i>Nature Photonics</i> , 2016, 10, 521-525.	31.4	298
8	Interface Engineering in Hybrid Quantum Dotâ€“2D Phototransistors. <i>ACS Photonics</i> , 2016, 3, 1324-1330.	6.6	122
9	Time-resolved spectroscopic study of resonant energy transfer between lead-sulphide quantum dots and bulk silicon. , 2015, , .		1
10	Tailoring the Electronic Properties of Colloidal Quantum Dots in Metalâ€“Semiconductor Nanocomposites for High Performance Photodetectors. <i>Small</i> , 2015, 11, 2636-2641.	10.0	35
11	Solution Processed Bismuth Sulfide Nanowire Array Core/Silver Sulfide Shell Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 3700-3706.	6.7	37
12	Size and bandgap tunability in Bi ₂ S ₃ colloidal nanocrystals and its effect in solution processed solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20642-20648.	10.3	83
13	Determination of carrier lifetime and mobility in colloidal quantum dot films via impedance spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	27
14	Remote Trap Passivation in Colloidal Quantum Dot Bulk Nanoâ€“heterojunctions and Its Effect in Solutionâ€“Processed Solar Cells. <i>Advanced Materials</i> , 2014, 26, 4741-4747.	21.0	62
15	Improved electronic coupling in hybrid organicâ€“inorganic nanocomposites employing thiol-functionalized P3HT and bismuth sulfide nanocrystals. <i>Nanoscale</i> , 2014, 6, 10018-10026.	5.6	24
16	Hybrid solution-processed bulk heterojunction solar cells based on bismuth sulfide nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5482.	2.8	40
17	Size- and Temperature-Dependent Carrier Dynamics in Oleic Acid Capped PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1887-1892.	3.1	35
18	Coupling Resonant Modes of Embedded Dielectric Microspheres in Solutionâ€“Processed Solar Cells. <i>Advanced Optical Materials</i> , 2013, 1, 139-143.	7.3	15

#	ARTICLE	IF	CITATIONS
19	Microresonators: Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells (Advanced Optical Materials 2/2013). <i>Advanced Optical Materials</i> , 2013, 1, 194-194.	7.3	1
20	Spectroscopic evidence of resonance energy transfer mechanism from PbS QDs to bulk silicon. <i>EPJ Web of Conferences</i> , 2013, 54, 01017.	0.3	4
21	Resonance energy transfer from PbS colloidal quantum dots to bulk silicon: the road to hybrid photovoltaics. , 2012, , .		7
22	Electrical effects of metal nanoparticles embedded in ultra-thin colloidal quantum dot films. <i>Applied Physics Letters</i> , 2012, 101, 041103.	3.3	19
23	Plasmonic light trapping leads to responsivity increase in colloidal quantum dot photodetectors. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	52
24	Hybrid graphene-quantum dot phototransistors with ultrahigh gain. <i>Nature Nanotechnology</i> , 2012, 7, 363-368.	31.5	1,936
25	Solution-processed inorganic bulk nano-heterojunctions and their application to solar cells. <i>Nature Photonics</i> , 2012, 6, 529-534.	31.4	221
26	Synthesis of Core-Shell PtRu Dendrimer-Encapsulated Nanoparticles. Relevance as Electrocatalysts for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1287-1294.	3.1	31
27	Octahedral Alkynylphosphine Ruthenium(II) Complexes: Synthesis, Structure, and Electrochemistry. <i>Organometallics</i> , 2011, 30, 4665-4677.	2.3	9
28	Solution-Processed Heterojunction Solar Cells Based on p-type PbS Quantum Dots and n-type Bi ₂ S ₃ Nanocrystals. <i>Advanced Materials</i> , 2011, 23, 3712-3717.	21.0	179
29	Near IR-Sensitive, Non-toxic, Polymer/Nanocrystal Solar Cells Employing Bi ₂ S ₃ as the Electron Acceptor. <i>Advanced Energy Materials</i> , 2011, 1, 1029-1035.	19.5	78
30	Dendrimer-Encapsulated Pd Nanoparticles versus Palladium Acetate as Catalytic Precursors in the Stille Reaction in Water. <i>Inorganic Chemistry</i> , 2009, 48, 4491-4496.	4.0	99
31	Facile Single or Double C-H Bond Activation on a Cp* Ligand Promoted by the Presence of Alkynylphosphine Ligands. <i>Organometallics</i> , 2009, 28, 312-320.	2.3	14
32	Rearrangement or C-H Activation Processes Promoted by Reaction with the Solvate [cis-Pt(C6F5) ₂ (thf) ₂]. <i>Organometallics</i> , 2007, 26, 1161-1172.	2.3	13
33	C-H and C(Ph) activation competitive processes caused by interaction with the solvate [cis-Pt(C6F5) ₂ (thf) ₂]. <i>Dalton Transactions</i> , 2007, , 2384-2393.	3.3	8
34	Six-Coordinate Alkynyl-diphenylphosphine Ruthenium(II) Complexes: Synthesis, Structure, and Catalytic Activity as ROMP Initiators. <i>Organometallics</i> , 2006, 25, 684-692.	2.3	23
35	Facile Single or Double C-H Bond Activation on 1,2-Platinum-Complexed Acetylenes by Interaction with [cis-PtR ₂ S ₂] and [cis-PtR ₂ (CO)S] (R = C6F5, S = Thf). <i>Organometallics</i> , 2005, 24, 431-438.	2.3	22
36	Alkynyl-diphenylphosphine d8(Pt, Rh, Ir) Complexes: A Contrasting Behavior toward cis-[Pt(C6F5) ₂ (THF) ₂]. <i>Inorganic Chemistry</i> , 2004, 43, 8185-8198.	4.0	28

#	ARTICLE	IF	CITATIONS
37	(p-cymene)Ruthenium(II)(diphenylphosphino)alkyne Complexes: Preparation of $(\eta^5\text{-C}_5\text{Me}_5)_2\text{Ru}(\eta^5\text{-C}_5\text{Me}_5)_2\text{Pt}(\eta^5\text{-C}_5\text{Me}_5)_2$ -Bridged Ru/Pt Heterobimetallic Complexes. <i>Organometallics</i> , 2004, 23, 4288-4300.	2.3	23
38	Diphenyl(phenylethynyl)phosphine d6 [Rh(III), Ir(III), Ru(II)] Complexes: Preparation of Homo $(\eta^5\text{-C}_5\text{Me}_5)_2$ and Hetero $(\eta^5\text{-C}_5\text{Me}_5)(\eta^5\text{-C}_5\text{Me}_5\text{C}_6\text{H}_4)$ Bridged d6-d8 Compounds. <i>Organometallics</i> , 2002, 21, 2314-2324.	2.3	27