

Beatriz MartÃ-n-GarcÃ-a

List of Publications by Year in descending order

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69
papers

2,690
citations

159358

30
h-index

197535

49
g-index

72
all docs

72
docs citations

72
times ranked

4340
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2022, 34, e2106160.	11.1	18
2	Tuning the magnetic properties of NiPS ₃ through organic-ion intercalation. <i>Nanoscale</i> , 2022, 14, 1165-1173.	2.8	14
3	Sulfonated NbS ₂ -based proton-exchange membranes for vanadium redox flow batteries. <i>Nanoscale</i> , 2022, 14, 6152-6161.	2.8	8
4	Exchange Bias in Molecule/Fe ₃ GeTe ₂ van der Waals Heterostructures via Spinterface Effects. <i>Advanced Materials</i> , 2022, 34, e2200474.	11.1	17
5	Gate-tunable and chirality-dependent charge-to-spin conversion in tellurium nanowires. <i>Nature Materials</i> , 2022, 21, 526-532.	13.3	62
6	Topochemical Transformation of Two-Dimensional VSe ₂ into Metallic Nonlayered VO ₂ for Water Splitting Reactions in Acidic and Alkaline Media. <i>ACS Nano</i> , 2022, 16, 351-367.	7.3	23
7	Tailoring Photoluminescence by Strain-Engineering in Layered Perovskite Flakes. <i>Nano Letters</i> , 2022, 22, 4153-4160.	4.5	8
8	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. <i>Nature Energy</i> , 2022, 7, 597-607.	19.8	66
9	Raman spectroscopy in layered hybrid organic-inorganic metal halide perovskites. <i>JPhys Materials</i> , 2022, 5, 034004.	1.8	7
10	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. <i>Energy Storage Materials</i> , 2021, 34, 1-11.	9.5	61
11	Phase Transitions in Low-Dimensional Layered Double Perovskites: The Role of the Organic Moieties. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 280-286.	2.1	23
12	Manufacturing ordered films of nanoparticles by Langmuir-Blodgett technique. , 2021, , 121-138.		1
13	Functionalized metallic transition metal dichalcogenide (TaS ₂) for nanocomposite membranes in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6368-6381.	5.2	22
14	Modeling Photodetection at the Graphene/Ag ₂ S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100120.	1.2	1
15	Graphene-Based Electrodes in a Vanadium Redox Flow Battery Produced by Rapid Low-Pressure Combined Gas Plasma Treatments. <i>Chemistry of Materials</i> , 2021, 33, 4106-4121.	3.2	35
16	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. <i>Nanoscale Advances</i> , 2021, 3, 3124-3135.	2.2	23
17	Paper Sensors Based on Fluorescence Changes of Carbon Nanodots for Optical Detection of Nanomaterials. <i>Sustainability</i> , 2021, 13, 11896.	1.6	3
18	Methylammonium Governs Structural and Optical Properties of Hybrid Lead Halide Perovskites through Dynamic Hydrogen Bonding. <i>Chemistry of Materials</i> , 2021, 33, 8524-8533.	3.2	14

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19	Core/Shell CdSe/CdS Bone- ∞ -Shaped Nanocrystals with a Thick and Anisotropic Shell as Optical Emitters. <i>Advanced Optical Materials</i> , 2020, 8, 1901463.	3.6	12
20	Angle and Polarization Selective Spontaneous Emission in Dye- ∞ -Doped Metal/Insulator/Metal Nanocavities. <i>Advanced Optical Materials</i> , 2020, 8, 1901215.	3.6	18
21	Ta ₂ S ₅ , TaSe ₂ , and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 3313-3325.	5.5	60
22	Microwave-Induced Structural Engineering and Pt Trapping in Ta ₂ S ₅ for the Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2003372.	5.2	18
23	Impact of local structure on halogen ion migration in layered methylammonium copper halide memory devices. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17516-17526.	5.2	14
24	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48598-48613.	4.0	56
25	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 10198-10211.	6.6	34
26	A two-fold engineering approach based on Bi ₂ Te ₃ flakes towards efficient and stable inverted perovskite solar cells. <i>Materials Advances</i> , 2020, 1, 450-462.	2.6	21
27	Water-dispersible few-layer graphene flakes for selective and rapid ion mercury (Hg ²⁺)-rejecting membranes. <i>Materials Advances</i> , 2020, 1, 387-402.	2.6	11
28	Biodegradable and Insoluble Cellulose Photonic Crystals and Metasurfaces. <i>ACS Nano</i> , 2020, 14, 9502-9511.	7.3	36
29	Metastable CdTe@HgTe Core@Shell Nanostructures Obtained by Partial Cation Exchange Evolve into Sintered CdTe Films Upon Annealing. <i>Chemistry of Materials</i> , 2020, 32, 2978-2985.	3.2	10
30	Composition-, Size-, and Surface Functionalization-Dependent Optical Properties of Lead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2079-2085.	2.1	37
31	Liquid Phase Exfoliated Indium Selenide Based Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 1908427.	7.8	42
32	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020, 5, 642-649.	8.8	52
33	Octapod-Shaped CdSe Nanocrystals Hosting Pt with High Mass Activity for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2020, 32, 2420-2429.	3.2	26
34	Solution-Processed GaSe Nanoflake-Based Films for Photoelectrochemical Water Splitting and Photoelectrochemical-Type Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 1909572.	7.8	81
35	Semiconductor Nanocrystal Heterostructures: Near-Infrared Emitting PbSe-Tipped CdSe Tetrapods. <i>Chemistry of Materials</i> , 2020, 32, 4045-4053.	3.2	8
36	Increasing responsivity and air stability of PbS colloidal quantum dot photoconductors with iodine surface ligands. <i>Nanotechnology</i> , 2019, 30, 405204.	1.3	18

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37	Single-/Few-Layer Graphene as Long-Lasting Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 5373-5379.	2.5	28
38	Ultrathin Orthorhombic PbS Nanosheets. Chemistry of Materials, 2019, 31, 8145-8153.	3.2	37
39	Tunable and Efficient Red to Near-Infrared Photoluminescence by Synergistic Exploitation of Core and Surface Silver Doping of CdSe Nanoplatelets. Chemistry of Materials, 2019, 31, 1450-1459.	3.2	64
40	Two-Dimensional Material Interface Engineering for Efficient Perovskite Large-Area Modules. ACS Energy Letters, 2019, 4, 1862-1871.	8.8	125
41	Colloidal PbSe Nanoplatelets of Varied Thickness with Tunable Optical Properties. Chemistry of Materials, 2019, 31, 3803-3811.	3.2	32
42	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. ChemPlusChem, 2019, 84, 882-892.	1.3	28
43	Planar Aperiodic Arrays as Metasurfaces for Optical Near-Field Patterning. ACS Nano, 2019, 13, 5646-5654.	7.3	8
44	Carbon Nanotube-Supported MoSe ₂ Holey Flake:Mo ₂ C Ball Hybrids for Bifunctional pH-Universal Water Splitting. ACS Nano, 2019, 13, 3162-3176.	7.3	120
45	Sliding on graphene: a novel concept to boost supercapacitor performance. Nanoscale Horizons, 2019, 4, 1077-1091.	4.1	22
46	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	7.8	174
47	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS ₂ Nanosheets for Application in Gas Sensing and Electrocatalysis. Small, 2019, 15, e1904670.	5.2	38
48	Niobium disulphide (Nb ₂ S ₅)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 25593-25608.	5.2	50
49	Giant-Shell CdSe/CdS Nanocrystals: Exciton Coupling to Shell Phonons Investigated by Resonant Raman Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 399-405.	2.1	11
50	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. Solar Energy Materials and Solar Cells, 2018, 183, 1-7.	3.0	68
51	Near-Infrared Cu-In-Se-Based Colloidal Nanocrystals via Cation Exchange. Chemistry of Materials, 2018, 30, 2607-2617.	3.2	45
52	Solution-processed silver sulphide nanocrystal film for resistive switching memories. Journal of Materials Chemistry C, 2018, 6, 13128-13135.	2.7	13
53	MoS ₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell with an Efficiency of over 20%. ACS Nano, 2018, 12, 10736-10754.	7.3	201
54	Chloride-Induced Thickness Control in CdSe Nanoplatelets. Nano Letters, 2018, 18, 6248-6254.	4.5	135

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55	Near-Infrared Emitting Colloidal PbS Nanoplatelets: Lateral Size Control and Optical Spectroscopy. Chemistry of Materials, 2017, 29, 2883-2889.	3.2	42
56	Synthesis of Air-Stable CdSe/ZnS Core-Shell Nanoplatelets with Tunable Emission Wavelength. Chemistry of Materials, 2017, 29, 5671-5680.	3.2	96
57	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. Journal of Physical Chemistry C, 2017, 121, 21887-21903.	1.5	30
58	Solution-Processed Hybrid Graphene Flake/2H-MoS ₂ Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. Chemistry of Materials, 2017, 29, 5782-5786.	3.2	93
59	Mechanically flexible and optically transparent three-dimensional nanofibrous amorphous aerocellulose. Carbohydrate Polymers, 2016, 149, 217-223.	5.1	10
60	Revisiting the Anion Framework Conservation in Cation Exchange Processes. Chemistry of Materials, 2016, 28, 7872-7877.	3.2	15
61	Efficient charge transfer in solution-processed PbS quantum dot-reduced graphene oxide hybrid materials. Journal of Materials Chemistry C, 2015, 3, 7088-7095.	2.7	43
62	Graphene-based technologies for energy applications, challenges and perspectives. 2D Materials, 2015, 2, 030204.	2.0	74
63	Nanoparticle Self-Assembly Assisted by Polymers: The Role of Shear Stress in the Nanoparticle Arrangement of Langmuir and Langmuir-Blodgett Films. Langmuir, 2014, 30, 509-516.	1.6	27
64	Block copolymer assisted self-assembly of nanoparticles into Langmuir-Blodgett films: Effect of polymer concentration. Materials Chemistry and Physics, 2013, 141, 324-332.	2.0	16
65	Photoluminescence Dynamics of CdSe QD/Polymer Langmuir-Blodgett Thin Films: Morphology Effects. Journal of Physical Chemistry C, 2013, 117, 14787-14795.	1.5	21
66	QDs Supported on Langmuir-Blodgett Films of Polymers and Gemini Surfactant. Journal of Nanomaterials, 2013, 2013, 1-10.	1.5	7
67	Functionalization of Reduced Graphite Oxide Sheets with a Zwitterionic Surfactant. ChemPhysChem, 2012, 13, 3682-3690.	1.0	33
68	Langmuir and Langmuir-Blodgett Films of a Maleic Anhydride Derivative: Effect of Subphase Divalent Cations. Langmuir, 2010, 26, 14556-14562.	1.6	20
69	Langmuir-Blodgett Methodology: A Versatile Technique to Build 2D Material Films. , 0, , .		4