

Reinier Oropesa-Nuñez

List of Publications by Year in descending order

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48
papers

2,065
citations

236833

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docs citations

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times ranked

3364
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-sized WS ₂ monolayer deposition by sputtering. <i>Nanoscale</i> , 2022, 14, 6331-6338.	2.8	6
2	Sulfonated NbS ₂ -based proton-exchange membranes for vanadium redox flow batteries. <i>Nanoscale</i> , 2022, 14, 6152-6161.	2.8	8
3	Transition metal dichalcogenides as catalysts for the hydrogen evolution reaction: The emblematic case of ϵ -ZrSe ₂ as catalyst for electrolyzers. <i>Nano Select</i> , 2022, 3, 1069-1081.	1.9	6
4	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
5	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
6	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
7	Hybrid Organic/Inorganic Photocathodes Based on WS ₂ Flakes as Hole Transporting Layer Material. <i>Small Structures</i> , 2021, 2, 2000098.	6.9	14
8	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
9	Impact of Experimental Parameters on Cell-Cell Force Spectroscopy Signature. <i>Sensors</i> , 2021, 21, 1069.	2.1	3
10	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11857-11866.	1.5	41
11	Evaluating the Performance of a Magnetic Nanoparticle-Based Detection Method Using Circle-to-Circle Amplification. <i>Biosensors</i> , 2021, 11, 173.	2.3	4
12	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
13	Quantitative Measurement of the Affinity of Toxic and Nontoxic Misfolded Protein Oligomers for Lipid Bilayers and of its Modulation by Lipid Composition and Trodusquemine. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3189-3202.	1.7	13
14	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
15	Formation of Visible Aggregates between Rolling Circle Amplification Products and Magnetic Nanoparticles as a Strategy for Point-of-Care Diagnostics. <i>ACS Omega</i> , 2021, 6, 32970-32976.	1.6	5
16	TaS ₂ , TaSe ₂ , and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 3313-3325.	5.5	60
17	Microwave-Induced Structural Engineering and Pt Trapping in TaS ₂ for the Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2003372.	5.2	18
18	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

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19	Insights into the Formation of DNA-Magnetic Nanoparticle Hybrid Structures: Correlations between Morphological Characterization and Output from Magnetic Biosensor Measurements. <i>ACS Sensors</i> , 2020, 5, 3510-3519.	4.0	14
20	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
21	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
22	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
23	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
24	Single-/Few-Layer Graphene as Long-Lasting Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5373-5379.	2.5	28
25	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , 2019, 84, 882-892.	1.3	28
26	Carbon Nanotube-Supported MoSe ₂ Holey Flake:Mo ₂ C Ball Hybrids for Bifunctional pH-Universal Water Splitting. <i>ACS Nano</i> , 2019, 13, 3162-3176.	7.3	120
27	œlon sliding on graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , 2019, 4, 1077-1091.	4.1	22
28	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1807659.	7.8	174
29	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS ₂ Nanosheets for Application in Gas Sensing and Electrocatalysis. <i>Small</i> , 2019, 15, e1904670.	5.2	38
30	Niobium disulphide (NbS ₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25593-25608.	5.2	50
31	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1703212.	10.2	152
32	Toxic HypF-N Oligomers Selectively Bind the Plasma Membrane to Impair Cell Adhesion Capability. <i>Biophysical Journal</i> , 2018, 114, 1357-1367.	0.2	8
33	Amyloid and membrane complexity: The toxic interplay revealed by AFM. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 82-94.	2.3	34
34	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%. <i>ACS Nano</i> , 2018, 12, 10736-10754.	7.3	201
35	WS ₂ -Graphite Dual-Ion Batteries. <i>Nano Letters</i> , 2018, 18, 7155-7164.	4.5	88
36	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1800749.	5.2	90

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37	A Short-Chain Multibranched Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. ACS Sustainable Chemistry and Engineering, 2018, 6, 9734-9743.	3.2	34
38	Doped MoSe ₂ Nanoflakes/3d Metal Oxide Hydr(Oxy)Oxides Hybrid Catalysts for pH-Universal Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1801764.	10.2	67
39	3D porous polyurethanes featured by different mechanical properties: Characterization and interaction with skeletal muscle cells. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 147-159.	1.5	32
40	ITO nanoparticles break optical transparency/high-area capacitance trade-off for advanced aqueous supercapacitors. Journal of Materials Chemistry A, 2017, 5, 25177-25186.	5.2	26
41	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
42	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of Î2A microglobulin. Journal of Cellular and Molecular Medicine, 2016, 20, 1443-1456.	1.6	23
43	Selective Interaction between Toxic Amyloid Oligomers and the Cell Membrane Revealed by Innovative AFM Applications. Biophysical Journal, 2016, 110, 498a.	0.2	0
44	Interaction of toxic and non-toxic HypF-N oligomers with lipid bilayers investigated at high resolution with atomic force microscopy. Oncotarget, 2016, 7, 44991-45004.	0.8	23
45	Correlative nanoscopy: super resolved fluorescence and atomic force microscopy towards nanoscale manipulation and multimodal investigations. Microscopy and Microanalysis, 2015, 21, 2351-2352.	0.2	2
46	Tunable Friction Behavior of Photochromic Fibrillar Surfaces. Langmuir, 2015, 31, 6072-6077.	1.6	12
47	Spontaneous Formation of Photochromic Coatings Made of Reversible Microfibrils and Nanofibrils on an Elastomer Substrate. Langmuir, 2014, 30, 13058-13064.	1.6	9
48	Physico-chemical studies of molecular interactions between non-ionic surfactants and bovine serum albumin. Colloids and Surfaces B: Biointerfaces, 2010, 75, 282-289.	2.5	93