

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

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citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ /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
2	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	7.8	174
3	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703212.	10.2	152
4	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
5	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
6	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
7	Liquid-Phase Exfoliated Indium Selenide Flakes and Their Application in Hydrogen Evolution Reaction. Small, 2018, 14, e1800749.	5.2	90
8	WS ₂ -Graphite Dual-Ion Batteries. Nano Letters, 2018, 18, 7155-7164.	4.5	88
9	Solution-Processed GaSe Nanoflake-Based Films for Photoelectrochemical Water Splitting and Photoelectrochemical-Type Photodetectors. Advanced Functional Materials, 2020, 30, 1909572.	7.8	81
10	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
11	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. Nature Energy, 2022, 7, 597-607.	19.8	66
12	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. Energy Storage Materials, 2021, 34, 1-11.	9.5	61
13	Ta ₂ S ₅ , TaSe ₂ , and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2020, 10, 3313-3325.	5.5	60
14	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 48598-48613.	4.0	56
15	Niobium disulphide (NbS ₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 25593-25608.	5.2	50
16	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. Journal of Physical Chemistry C, 2021, 125, 11857-11866.	1.5	41
17	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
18	Graphene-Based Electrodes in a Vanadium Redox Flow Battery Produced by Rapid Low-Pressure Combined Gas Plasma Treatments. Chemistry of Materials, 2021, 33, 4106-4121.	3.2	35

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19	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
20	A Short-Chain Multibranch Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9734-9743.	3.2	34
21	3D porous polyurethanes featured by different mechanical properties: Characterization and interaction with skeletal muscle cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 147-159.	1.5	32
22	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
23	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , 2019, 84, 882-892.	1.3	28
24	ITO nanoparticles break optical transparency/high-areal capacitance trade-off for advanced aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25177-25186.	5.2	26
25	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
26	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of β_2 -microglobulin. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 1443-1456.	1.6	23
27	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
28	Interaction of toxic and non-toxic HypF-N oligomers with lipid bilayers investigated at high resolution with atomic force microscopy. <i>Oncotarget</i> , 2016, 7, 44991-45004.	0.8	23
29	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
30	Carbon sliding on graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , 2019, 4, 1077-1091.	4.1	22
31	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
32	A two-fold engineering approach based on Bi_2Te_3 flakes towards efficient and stable inverted perovskite solar cells. <i>Materials Advances</i> , 2020, 1, 450-462.	2.6	21
33	Microwave-Induced Structural Engineering and Pt Trapping in TaS_2 for the Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2003372.	5.2	18
34	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
35	Hybrid Organic/Inorganic Photocathodes Based on WS_2 Flakes as Hole Transporting Layer Material. <i>Small Structures</i> , 2021, 2, 2000098.	6.9	14
36	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

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37	Tunable Friction Behavior of Photochromic Fibrillar Surfaces. <i>Langmuir</i> , 2015, 31, 6072-6077.	1.6	12
38	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
39	Spontaneous Formation of Photochromic Coatings Made of Reversible Microfibrils and Nanofibrils on an Elastomer Substrate. <i>Langmuir</i> , 2014, 30, 13058-13064.	1.6	9
40	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
41	Sulfonated NbS ₂ -based proton-exchange membranes for vanadium redox flow batteries. <i>Nanoscale</i> , 2022, 14, 6152-6161.	2.8	8
42	Wafer-sized WS ₂ monolayer deposition by sputtering. <i>Nanoscale</i> , 2022, 14, 6331-6338.	2.8	6
43	Transition metal dichalcogenides as catalysts for the hydrogen evolution reaction: The emblematic case of inert ZrSe ₂ as catalyst for electrolyzers. <i>Nano Select</i> , 2022, 3, 1069-1081.	1.9	6
44	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
45	Evaluating the Performance of a Magnetic Nanoparticle-Based Detection Method Using Circle-to-Circle Amplification. <i>Biosensors</i> , 2021, 11, 173.	2.3	4
46	Impact of Experimental Parameters on Cell Cell Force Spectroscopy Signature. <i>Sensors</i> , 2021, 21, 1069.	2.1	3
47	Correlative nanoscopy: super resolved fluorescence and atomic force microscopy towards nanoscale manipulation and multimodal investigations. <i>Microscopy and Microanalysis</i> , 2015, 21, 2351-2352.	0.2	2
48	Selective Interaction between Toxic Amyloid Oligomers and the Cell Membrane Revealed by Innovative AFM Applications. <i>Biophysical Journal</i> , 2016, 110, 498a.	0.2	0