

# Rui Gusmão

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/650147/publications.pdf>

Version: 2024-02-01

53  
papers

2,094  
citations

304368

22  
h-index

233125

45  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Phosphorus Rediscovered: From Bulk Material to Monolayers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8052-8072.	7.2	407
2	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14417-14422.	7.2	216
3	Recent Developments on the Single Atom Supported at 2D Materials Beyond Graphene as Catalysts. <i>ACS Catalysis</i> , 2020, 10, 9634-9648.	5.5	102
4	The capacitance and electron transfer of 3D-printed graphene electrodes are dramatically influenced by the type of solvent used for pre-treatment. <i>Electrochemistry Communications</i> , 2019, 102, 83-88.	2.3	96
5	Pnictogen-Based Enzymatic Phenol Biosensors: Phosphorene, Arsenene, Antimonene, and Bismuthene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 134-138.	7.2	96
6	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. <i>Angewandte Chemie</i> , 2017, 129, 14609-14614.	1.6	87
7	Exfoliated Layered Manganese Trichalcogenide Phosphite ( $MnPX_3$ , $X = S, Se$ ) as Electrocatalytic van der Waals Materials for Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2019, 29, 1805975.	7.8	85
8	The Role of the Metal Element in Layered Metal Phosphorus Triselenides upon Their Electrochemical Sensing and Energy Applications. <i>ACS Catalysis</i> , 2017, 7, 8159-8170.	5.5	83
9	Functional Protection of Exfoliated Black Phosphorus by Noncovalent Modification with Anthraquinone. <i>ACS Nano</i> , 2018, 12, 5666-5673.	7.3	79
10	Metal Phosphorous Trichalcogenides ( $MPCh_3$ ): From Synthesis to Contemporary Energy Challenges. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9326-9337.	7.2	73
11	Schwarzer Phosphor neu entdeckt: vom Volumenmaterial zu Monoschichten. <i>Angewandte Chemie</i> , 2017, 129, 8164-8185.	1.6	59
12	Recent Advances in the Electromagnetic Interference Shielding of 2D Materials beyond Graphene. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3048-3071.	2.0	59
13	Synthesis Protocols of the Most Common Layered Carbide and Nitride MAX Phases. <i>Small Methods</i> , 2020, 4, 1900780.	4.6	53
14	Cytotoxicity of Shear Exfoliated Pnictogen (As, Sb, Bi) Nanosheets. <i>Chemistry - A European Journal</i> , 2019, 25, 2242-2249.	1.7	34
15	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. <i>Chemistry - A European Journal</i> , 2020, 26, 6583-6590.	1.7	32
16	Cobalt Phosphorous Trisulfide as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23638-23646.	4.0	31
17	Circular Dichroism and Voltammetry, Assisted by Multivariate Curve Resolution, and Mass Spectrometry of the Competitive Metal Binding by Phytochelatin $PC_5$ . <i>Analytical Chemistry</i> , 2010, 82, 9006-9013.	3.2	29
18	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. <i>RSC Advances</i> , 2015, 5, 5024-5031.	1.7	28

#	ARTICLE	IF	CITATIONS
19	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. <i>Electrochimica Acta</i> , 2020, 362, 137144.	2.6	25
20	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 139, 116249.	5.8	25
21	Antimony Chalcogenide van der Waals Nanostructures for Energy Conversion and Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15790-15798.	3.2	24
22	MoS <sub>2</sub> versatile spray-coating of 3D electrodes for the hydrogen evolution reaction. <i>Nanoscale</i> , 2019, 11, 9888-9895.	2.8	24
23	Comparison between layered Pt <sub>3</sub> Te <sub>4</sub> and PtTe <sub>2</sub> for electrocatalytic reduction reactions. <i>FlatChem</i> , 2021, 29, 100280.	2.8	22
24	Electrochemical survey of the chain length influence in phytochelatin competitive binding by cadmium. <i>Analytical Biochemistry</i> , 2010, 406, 61-69.	1.1	21
25	Cadmium binding in mixtures of phytochelatin and their fragments: A voltammetric study assisted by multivariate curve resolution and mass spectrometry. <i>Analyst</i> , 2010, 135, 86-95.	1.7	21
26	Marcus's Chidsey theory of electron transfer to and from species bound at a non-uniform electrode surface: Theory and experiment. <i>Chemical Physics Letters</i> , 2011, 517, 108-112.	1.2	21
27	Black Phosphorus Synthesis Path Strongly Influences Its Delamination, Chemical Properties and Electrochemical Performance. <i>ACS Applied Energy Materials</i> , 2018, 1, 503-509.	2.5	19
28	From cysteine to longer chain thiols: thermodynamic analysis of cadmium binding by phytochelatin and their fragments. <i>Metallomics</i> , 2011, 3, 838.	1.0	18
29	Layered frunckite and teallite intrinsic heterostructures: shear exfoliation and electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16590-16599.	5.2	18
30	A highly sensitive enzyme-less glucose sensor based on pnictogens and silver shell-gold core nanorod composites. <i>Chemical Communications</i> , 2020, 56, 7909-7912.	2.2	16
31	Electrochemical Fluorographane: Hybrid Electrocatalysis of Biomarkers, Hydrogen Evolution, and Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2015, 21, 16474-16478.	1.7	14
32	Screen-printed carbon electrodes doped with TiO <sub>2</sub> -Au nanocomposites with improved electrocatalytic performance. <i>Materials Today Communications</i> , 2017, 11, 11-17.	0.9	14
33	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils. <i>ACS Applied Nano Materials</i> , 2022, 5, 6792-6800.	2.4	13
34	Synergetic Metals on Carbocatalyst Shungite. <i>Chemistry - A European Journal</i> , 2017, 23, 18232-18238.	1.7	12
35	Competitive binding of cadmium by plant thiols: an electrochemical study assisted by multivariate curve resolution. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1137-1145.	1.9	11
36	Contrasts between Mild and Harsh Oxidation of Carbon Nanotubes in terms of their Properties and Electrochemical Performance. <i>ChemElectroChem</i> , 2016, 3, 1713-1719.	1.7	11

#	ARTICLE	IF	CITATIONS
37	Exfoliated Fe <sub>3</sub> GeTe <sub>2</sub> and Ni <sub>3</sub> GeTe <sub>2</sub> materials as water splitting electrocatalysts. <i>FlatChem</i> , 2022, 32, 100334.	2.8	11
38	Multifunctional electrocatalytic hybrid carbon nanocables with highly active edges on their walls. <i>Nanoscale</i> , 2016, 8, 6700-6711.	2.8	10
39	Electroanalysis of the binding and adsorption of Hg <sup>2+</sup> with seleno aminoacids by differential pulse and elimination voltammetry at the Au-disk electrode. <i>Electrochimica Acta</i> , 2011, 56, 5988-5992.	2.6	9
40	Antimony nanomaterials modified screen-printed electrodes for the voltammetric determination of metal ions. <i>Electrochimica Acta</i> , 2022, 425, 140690.	2.6	9
41	Determination of complex formation constants by phase sensitive alternating current polarography: Cadmium-poly(methacrylic acid) and cadmium-polygalacturonic acid. <i>Talanta</i> , 2007, 73, 776-782.	2.9	8
42	Voltammetric Analysis of Phytochelatin Complexation in Ternary Metal Mixtures Supported by Multivariate Analysis and ESI-MS. <i>Electroanalysis</i> , 2012, 24, 309-315.	1.5	8
43	Probing the surface of oxidized carbon nanotubes by selective interaction with target molecules. <i>Electrochemistry Communications</i> , 2015, 57, 22-26.	2.3	8
44	Photoelectrochemical Activity of Layered Metal Phosphorous Trichalcogenides for Water Oxidation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100294.	1.9	8
45	Synthesis of Magnesium Phosphorous Trichalcogenides and Applications in Photoelectrochemical Water Splitting. <i>Small</i> , 2022, 18, e2200355.	5.2	8
46	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. <i>ChemElectroChem</i> , 2016, 3, 2138-2145.	1.7	7
47	Combination of chemometrically assisted voltammetry, calorimetry, and circular dichroism as a new method for the study of bioinorganic substances: application to selenocystine metal complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 321-329.	1.1	6
48	PtSe <sub>2</sub> on a reduced graphene oxide foil for the alkaline hydrogen evolution reaction. <i>Materials Advances</i> , 2022, 3, 4348-4358.	2.6	6
49	Metall-Phosphor-Trichalkogenide (MPCh <sub>3</sub> ): von der Synthese zu aktuellen Energieanwendungen. <i>Angewandte Chemie</i> , 2019, 131, 9426-9438.	1.6	5
50	Pnictogen-Based Enzymatic Phenol Biosensors: Phosphorene, Arsenene, Antimonene, and Bismuthene. <i>Angewandte Chemie</i> , 2019, 131, 140-144.	1.6	4
51	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. <i>Talanta</i> , 2022, 238, 123036.	2.9	3
52	Chemometric Analysis of Voltammetric Data on Metal Ion Binding by Selenocystine. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6526-6531.	1.1	2
53	Innentitelbild: Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders ( <i>Angew. Chem.</i> 46/2017). <i>Angewandte Chemie</i> , 2017, 129, 14510-14510.	1.6	2