

Gonzalo Otero

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,649
citations

304368

22
h-index

288905

40
g-index

54
all docs

54
docs citations

54
times ranked

2954
citing authors

#	ARTICLE	IF	CITATIONS
1	Fullerenes from aromatic precursors by surface-catalysed cyclodehydrogenation. <i>Nature</i> , 2008, 454, 865-868.	13.7	291
2	Strain-Driven Moiré Superstructures of Epitaxial Graphene on Transition Metal Surfaces. <i>ACS Nano</i> , 2011, 5, 5627-5634.	7.3	155
3	Thermal conductivity and viscosity of hybrid nanofluids prepared with magnetic nanodiamond-cobalt oxide (ND-Co ₃ O ₄) nanocomposite. <i>Case Studies in Thermal Engineering</i> , 2016, 7, 66-77.	2.8	106
4	Evolution of reduced Ti containing phase(s) in MgH ₂ /TiO ₂ system and its effect on the hydrogen storage behavior of MgH ₂ . <i>Journal of Power Sources</i> , 2017, 362, 174-183.	4.0	83
5	Ordered Vacancy Network Induced by the Growth of Epitaxial Graphene on Pt(111). <i>Physical Review Letters</i> , 2010, 105, 216102.	2.9	70
6	Thermoelectric performance of Nb-doped SrTiO ₃ enhanced by reduced graphene oxide and Sr deficiency cooperation. <i>Carbon</i> , 2019, 143, 215-222.	5.4	69
7	Heat transfer and friction factor of multi-walled carbon nanotubes-Fe ₃ O ₄ nanocomposite nanofluids flow in a tube with/without longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 691-703.	2.5	62
8	Tailored Formation of N-Doped Nanoarchitectures by Diffusion-Controlled on-Surface (Cyclo)Dehydrogenation of Heteroaromatics. <i>ACS Nano</i> , 2013, 7, 3676-3684.	7.3	52
9	Optimization of post-deposition annealing in Cu ₂ ZnSnS ₄ thin film solar cells and its impact on device performance. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 287-294.	3.0	48
10	3D Reduced Graphene Oxide Scaffolds with a Combinatorial Fibrous-Porous Architecture for Neural Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38962-38975.	4.0	44
11	Quantitative XRD characterisation and gas-phase photocatalytic activity testing for visible-light (indoor applications) of KRONOClean 7000®. <i>RSC Advances</i> , 2015, 5, 102911-102918.	1.7	40
12	Purely Visible-Light-Induced Photochromism in Ag-TiO ₂ Nanoheterostructures. <i>Langmuir</i> , 2017, 33, 4890-4902.	1.6	38
13	Nanostructured Organic Material: From Molecular Chains to Organic Nanodots. <i>Advanced Materials</i> , 2006, 18, 2048-2052.	11.1	37
14	Graphene-Based TiO ₂ Nanocomposite for Photocatalytic Degradation of Dyes in Aqueous Solution under Solar-Like Radiation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3966.	1.3	37
15	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. <i>RSC Advances</i> , 2016, 6, 49039-49051.	1.7	35
16	Effects of Additives on Kinetics, Morphologies and Lead-Sensing Property of Electrodeposited Bismuth Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22398-22406.	1.5	31
17	Chemistry below graphene: Decoupling epitaxial graphene from metals by potential-controlled electrochemical oxidation. <i>Carbon</i> , 2018, 129, 837-846.	5.4	30
18	Ultrasonic irradiation as a green production route for coupling crystallinity and high specific surface area in iron nanomaterials. <i>Journal of Cleaner Production</i> , 2019, 211, 185-197.	4.6	30

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19	High-quality PVD graphene growth by fullerene decomposition on Cu foils. <i>Carbon</i> , 2017, 119, 535-543.	5.4	29
20	Massive Surface Reshaping Mediated by Metal-Organic Complexes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29704-29712.	1.5	28
21	Crystal structure, phase stoichiometry and chemical environment of Mg _x Nb _y O _{x+y} nanoparticles and their impact on hydrogen storage in MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11709-11715.	3.8	26
22	Vacancy formation on C60/Pt (111): unraveling the complex atomistic mechanism. <i>Nanotechnology</i> , 2014, 25, 385602.	1.3	25
23	Energy storage of supercapacitor electrodes on carbon cloth enhanced by graphene oxide aerogel reducing conditions. <i>Journal of Energy Storage</i> , 2020, 32, 101839.	3.9	23
24	Commensurate Growth of Densely Packed PTCDI Islands on the Rutile TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12639-12647.	1.5	21
25	Nitrogen-modified nano-titania: True phase composition, microstructure and visible-light induced photocatalytic NO abatement. <i>Journal of Solid State Chemistry</i> , 2015, 231, 87-100.	1.4	18
26	Role of the Pinning Points in epitaxial Graphene Moiré Superstructures on the Pt(111) Surface. <i>Scientific Reports</i> , 2016, 6, 20354.	1.6	18
27	Reductive nanometric patterning of graphene oxide paper using electron beam lithography. <i>Carbon</i> , 2018, 129, 63-75.	5.4	17
28	On-Surface Bottom-Up Synthesis of Azine Derivatives Displaying Strong Acceptor Behavior. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8582-8586.	7.2	13
29	Chemical Changes of Graphene Oxide Thin Films Induced by Thermal Treatment under Vacuum Conditions. <i>Coatings</i> , 2020, 10, 113.	1.2	13
30	Immobilised rGO/TiO ₂ Nanocomposite for Multi-Cycle Removal of Methylene Blue Dye from an Aqueous Medium. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 385.	1.3	13
31	The growth and improved magnetoelectric response of strain-modified Aurivillius SrBi _{4.25} La _{0.75} Ti ₄ FeO ₁₈ thin films. <i>Dalton Transactions</i> , 2019, 48, 13224-13241.	1.6	12
32	Densely Packed Perylene Layers on the Rutile TiO ₂ (110)-(1 Å ⁻¹) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7809-7816.	1.5	11
33	Charge injection in large area multilayer graphene by ambient Kelvin probe force microscopy. <i>Applied Materials Today</i> , 2017, 8, 18-25.	2.3	11
34	Sustainable and recoverable waste-based magnetic nanocomposites used for the removal of pharmaceuticals from wastewater. <i>Chemical Engineering Journal</i> , 2021, 426, 129974.	6.6	11
35	Investigation of temperature and frequency dependence of the dielectric properties of multiferroic (La _{0.8} Ca _{0.2}) _{0.4} Bi _{0.6} FeO ₃ nanoparticles for energy storage application. <i>RSC Advances</i> , 2022, 12, 6907-6917.	1.7	11
36	Morphological Investigation of Mn ₁₂ Single-Molecule Magnets Adsorbed on Au(111). <i>Langmuir</i> , 2009, 25, 10107-10115.	1.6	9

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37	Spontaneous Discrimination of Polycyclic Aromatic Hydrocarbon (PAH) Enantiomers on a Metal Surface. <i>Chemistry - A European Journal</i> , 2010, 16, 13920-13924.	1.7	8
38	Adsorption and coupling of 4-aminophenol on Pt(111) surfaces. <i>Surface Science</i> , 2016, 646, 5-12.	0.8	8
39	Interaction of keV ions with insulator films at grazing incidence: growth characterization and electron emission. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 203, 41-48.	0.6	7
40	On-Surface Bottom-Up Synthesis of Azine Derivatives Displaying Strong Acceptor Behavior. <i>Angewandte Chemie</i> , 2018, 130, 8718-8722.	1.6	7
41	Poly (L-lactic acid) coatings on 316 SS substrates for biomedical devices: The impact of surface silanization. <i>Progress in Organic Coatings</i> , 2021, 157, 106289.	1.9	7
42	Exploring the Thermoelectric Performance of BaGd ₂ NiO ₅ Haldane Gap Materials. <i>Inorganic Chemistry</i> , 2017, 56, 2354-2362.	1.9	6
43	Solid-Gas Phase Photo-Catalytic Behaviour of Rutile and TiO _n (1 < n < 2) Sub-Oxide Phases for Self-Cleaning Applications. <i>Materials</i> , 2019, 12, 170.	1.3	6
44	Angular dependence of electron emission induced by grazing-ion surface collisions. <i>Physical Review A</i> , 2004, 69, .	1.0	5
45	Pressure-dependent large area synthesis and electronic structure of MoS ₂ . <i>Materials Research Bulletin</i> , 2018, 97, 265-271.	2.7	5
46	On-Surface Driven Formal Michael Addition Produces m-Polyaniline Oligomers on Pt(111). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23220-23227.	7.2	5
47	Joining Caffeic Acid and Hydrothermal Treatment to Produce Environmentally Benign Highly Reduced Graphene Oxide. <i>Nanomaterials</i> , 2021, 11, 732.	1.9	5
48	On-surface self-organization of a robust metal-organic cluster based on copper with chloride and organosulphur ligands. <i>Chemical Communications</i> , 2015, 51, 3243-3246.	2.2	4
49	STM study of C ₆₀ overlayers on Pt(111) surfaces. <i>Vacuum</i> , 2011, 85, 1059-1062.	1.6	3
50	Defect concentration in nitrogen-doped graphene grown on Cu substrate: A thickness effect. <i>Physica B: Condensed Matter</i> , 2017, 513, 62-68.	1.3	3
51	Role of the Metal Surface on the Room Temperature Activation of the Alcohol and Amino Groups of <i>p</i> -Aminophenol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19655-19665.	1.5	2
52	On-Surface Driven Formal Michael Addition Produces m-Polyaniline Oligomers on Pt(111). <i>Angewandte Chemie</i> , 2020, 132, 23420-23427.	1.6	1
53	Thermal vapor sulfurization of molybdenum layers. <i>Thin Solid Films</i> , 2019, 691, 137588.	0.8	0
54	Graphene Based Sensors for Air Quality Monitoring – Preliminary Development Evaluation. <i>Journal of Coating Science and Technology</i> , 2019, 6, 10-21.	0.3	0