

Amaia Zurutuza

List of Publications by Year in descending order

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52
papers

3,108
citations

218677

26
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182427

51
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all docs

52
docs citations

52
times ranked

6405
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiquantitative Classification of Two Oxidizing Gases with Graphene-Based Gas Sensors. <i>Chemosensors</i> , 2022, 10, 68.	3.6	5
2	Controlling the threshold voltage of a semiconductor field-effect transistor by gating its graphene gate. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	6
3	International interlaboratory comparison of Raman spectroscopic analysis of CVD-grown graphene. <i>2D Materials</i> , 2022, 9, 035010.	4.4	7
4	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021, 4, 5187-5197.	5.0	5
5	Rapid Selective Detection of Ascorbic Acid Using Graphene-Based Microfluidic Platform. <i>IEEE Sensors Journal</i> , 2021, 21, 16744-16753.	4.7	6
6	A direct transfer solution for digital laser printing of CVD graphene. <i>2D Materials</i> , 2021, 8, 045017.	4.4	7
7	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 12524-12534.	13.7	62
8	Spectral-Phase Interferometry Detection of Ochratoxin A via Aptamer-Functionalized Graphene Coated Glass. <i>Nanomaterials</i> , 2021, 11, 226.	4.1	13
9	Graphene field effect transistor scaling for ultra-low-noise sensors. <i>Nanotechnology</i> , 2021, 32, 045502.	2.6	5
10	Skin irritation potential of graphene-based materials using a non-animal test. <i>Nanoscale</i> , 2020, 12, 610-622.	5.6	42
11	Laser-induced backward transfer of monolayer graphene. <i>Applied Surface Science</i> , 2020, 533, 147488.	6.1	14
12	Ecotoxicological impact of graphene oxide: toxic effects on the model organism <i>Artemia franciscana</i> . <i>Environmental Science: Nano</i> , 2020, 7, 3605-3615.	4.3	20
13	Partial Reversibility of the Cytotoxic Effect Induced by Graphene-Based Materials in Skin Keratinocytes. <i>Nanomaterials</i> , 2020, 10, 1602.	4.1	8
14	Selective ion sensing with high resolution large area graphene field effect transistor arrays. <i>Nature Communications</i> , 2020, 11, 3226.	12.8	83
15	Free-standing graphene films embedded in epoxy resin with enhanced thermal properties. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 31-40.	21.1	74
16	Surface analysis and surface doping of graphene on indium-tin-oxide. <i>Thin Solid Films</i> , 2019, 682, 57-62.	1.8	3
17	Investigation of charges-driven interactions between graphene and different SiO ₂ surfaces. <i>Carbon</i> , 2019, 148, 336-343.	10.3	11
18	High resolution potassium sensing with large-area graphene field-effect transistors. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 89-95.	7.8	29

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19	Probing the mechanical properties of vertically-stacked ultrathin graphene/Al ₂ O ₃ heterostructures. <i>Nanotechnology</i> , 2019, 30, 185703.	2.6	9
20	Chemiresistive Graphene Sensors for Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16169-16176.	8.0	100
21	Ultra-low contact resistance in graphene devices at the Dirac point. <i>2D Materials</i> , 2018, 5, 025014.	4.4	50
22	Transparent conductors for Mid-infrared liquid crystal spatial light modulators. <i>Thin Solid Films</i> , 2018, 660, 411-420.	1.8	13
23	Plasmon-Plasmon Interactions and Radiative Damping of Graphene Plasmons. <i>ACS Photonics</i> , 2018, 5, 3459-3465.	6.6	17
24	Label-free femtomolar cancer biomarker detection in human serum using graphene-coated surface plasmon resonance chips. <i>Biosensors and Bioelectronics</i> , 2017, 89, 606-611.	10.1	104
25	Noninvasive Scanning Raman Spectroscopy and Tomography for Graphene Membrane Characterization. <i>Nano Letters</i> , 2017, 17, 1504-1511.	9.1	17
26	Broadband image sensor array based on graphene-CMOS integration. <i>Nature Photonics</i> , 2017, 11, 366-371.	31.4	523
27	High-Gain Graphene Transistors with a Thin AlOx Top-Gate Oxide. <i>Scientific Reports</i> , 2017, 7, 2419.	3.3	36
28	Upscaling high-quality CVD graphene devices to 100 micron-scale and beyond. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	16
29	Flexible Nanoholey Patches for Antibiotic-Free Treatments of Skin Infections. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36665-36674.	8.0	42
30	Coating Graphene Oxide with Lipid Bilayers Greatly Decreases Its Hemolytic Properties. <i>Langmuir</i> , 2017, 33, 8181-8191.	3.5	20
31	Capacitive pressure sensing with suspended graphene-polymer heterostructure membranes. <i>Nanoscale</i> , 2017, 9, 17439-17449.	5.6	45
32	Differences in inflammation and acute phase response but similar genotoxicity in mice following pulmonary exposure to graphene oxide and reduced graphene oxide. <i>PLoS ONE</i> , 2017, 12, e0178355.	2.5	71
33	Advances in the fabrication of graphene transistors on flexible substrates. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 467-474.	2.8	20
34	Stabilizing a graphene platform toward discrete components. <i>Applied Physics Letters</i> , 2016, 109, 253110.	3.3	16
35	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. <i>Nano Letters</i> , 2016, 16, 2988-2993.	9.1	26
36	Capillary pressure in graphene oxide nanoporous membranes for enhanced heat transport in Loop Heat Pipes for aeronautics. <i>Experimental Thermal and Fluid Science</i> , 2016, 78, 147-152.	2.7	11

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37	Reaction kinetics of bond rotations in graphene. Carbon, 2016, 105, 176-182.	10.3	18
38	Colorimetry Technique for Scalable Characterization of Suspended Graphene. Nano Letters, 2016, 16, 6792-6796.	9.1	23
39	No cytotoxicity or genotoxicity of graphene and graphene oxide in murine lung epithelial FE1 cells in vitro. Environmental and Molecular Mutagenesis, 2016, 57, 469-482.	2.2	82
40	Spatial variation of wear and electrical properties across wrinkles in chemical vapour deposition graphene. Carbon, 2016, 102, 304-310.	10.3	90
41	Effects of humidity on the electronic properties of graphene prepared by chemical vapour deposition. Carbon, 2016, 103, 273-280.	10.3	53
42	Terahertz wafer-scale mobility mapping of graphene on insulating substrates without a gate. Optics Express, 2015, 23, 30721.	3.4	50
43	Up-Scaling Graphene Electronics by Reproducible Metal-Graphene Contacts. ACS Applied Materials & Interfaces, 2015, 7, 9429-9435.	8.0	35
44	Strongly Anisotropic Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films Annealed at High Temperature. Advanced Functional Materials, 2015, 25, 4664-4672.	14.9	462
45	Determination of a refractive index and an extinction coefficient of standard production of CVD-graphene. Nanoscale, 2015, 7, 1491-1500.	5.6	59
46	Plasmonic photothermal destruction of uropathogenic E. coli with reduced graphene oxide and core/shell nanocomposites of gold nanorods/reduced graphene oxide. Journal of Materials Chemistry B, 2015, 3, 375-386.	5.8	88
47	Stability of graphene doping with MoO ₃ and I ₂ . Applied Physics Letters, 2014, 105, .	3.3	49
48	Highly Sensitive Detection of DNA Hybridization on Commercialized Graphene-Coated Surface Plasmon Resonance Interfaces. Analytical Chemistry, 2014, 86, 11211-11216.	6.5	106
49	Direct Observation of a Long-Lived Single-Atom Catalyst Chiseling Atomic Structures in Graphene. Nano Letters, 2014, 14, 450-455.	9.1	81
50	Challenges and opportunities in graphene commercialization. Nature Nanotechnology, 2014, 9, 730-734.	31.5	305
51	Ultrathin rechargeable all-solid-state batteries based on monolayer graphene. Journal of Materials Chemistry A, 2013, 1, 3177.	10.3	60
52	Case studies of electrical characterisation of graphene by terahertz time-domain spectroscopy. 2D Materials, 0, , .	4.4	11