

Amaia Zurutuza

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/658359/publications.pdf>

Version: 2024-02-01

52
papers

3,108
citations

218677

26
h-index

182427

51
g-index

52
all docs

52
docs citations

52
times ranked

6405
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband image sensor array based on graphene-CMOS integration. <i>Nature Photonics</i> , 2017, 11, 366-371.	31.4	523
2	Strongly Anisotropic Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films Annealed at High Temperature. <i>Advanced Functional Materials</i> , 2015, 25, 4664-4672.	14.9	462
3	Challenges and opportunities in graphene commercialization. <i>Nature Nanotechnology</i> , 2014, 9, 730-734.	31.5	305
4	Highly Sensitive Detection of DNA Hybridization on Commercialized Graphene-Coated Surface Plasmon Resonance Interfaces. <i>Analytical Chemistry</i> , 2014, 86, 11211-11216.	6.5	106
5	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
6	Chemiresistive Graphene Sensors for Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16169-16176.	8.0	100
7	Spatial variation of wear and electrical properties across wrinkles in chemical vapour deposition graphene. <i>Carbon</i> , 2016, 102, 304-310.	10.3	90
8	Plasmonic photothermal destruction of uropathogenic E. coli with reduced graphene oxide and core/shell nanocomposites of gold nanorods/reduced graphene oxide. <i>Journal of Materials Chemistry B</i> , 2015, 3, 375-386.	5.8	88
9	Selective ion sensing with high resolution large area graphene field effect transistor arrays. <i>Nature Communications</i> , 2020, 11, 3226.	12.8	83
10	No cytotoxicity or genotoxicity of graphene and graphene oxide in murine lung epithelial FE1 cells in vitro. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 469-482.	2.2	82
11	Direct Observation of a Long-Lived Single-Atom Catalyst Chiseling Atomic Structures in Graphene. <i>Nano Letters</i> , 2014, 14, 450-455.	9.1	81
12	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
13	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
14	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
15	Ultrathin rechargeable all-solid-state batteries based on monolayer graphene. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3177.	10.3	60
16	Determination of a refractive index and an extinction coefficient of standard production of CVD-graphene. <i>Nanoscale</i> , 2015, 7, 1491-1500.	5.6	59
17	Effects of humidity on the electronic properties of graphene prepared by chemical vapour deposition. <i>Carbon</i> , 2016, 103, 273-280.	10.3	53
18	Terahertz wafer-scale mobility mapping of graphene on insulating substrates without a gate. <i>Optics Express</i> , 2015, 23, 30721.	3.4	50

#	ARTICLE	IF	CITATIONS
19	Ultra-low contact resistance in graphene devices at the Dirac point. 2D Materials, 2018, 5, 025014.	4.4	50
20	Stability of graphene doping with MoO ₃ and I ₂ . Applied Physics Letters, 2014, 105, .	3.3	49
21	Capacitive pressure sensing with suspended graphene-polymer heterostructure membranes. Nanoscale, 2017, 9, 17439-17449.	5.6	45
22	Flexible Nanohole Patches for Antibiotic-Free Treatments of Skin Infections. ACS Applied Materials & Interfaces, 2017, 9, 36665-36674.	8.0	42
23	Skin irritation potential of graphene-based materials using a non-animal test. Nanoscale, 2020, 12, 610-622.	5.6	42
24	High-Gain Graphene Transistors with a Thin AlO _x Top-Gate Oxide. Scientific Reports, 2017, 7, 2419.	3.3	36
25	Up-Scaling Graphene Electronics by Reproducible Metal-Graphene Contacts. ACS Applied Materials & Interfaces, 2015, 7, 9429-9435.	8.0	35
26	High resolution potassium sensing with large-area graphene field-effect transistors. Sensors and Actuators B: Chemical, 2019, 291, 89-95.	7.8	29
27	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. Nano Letters, 2016, 16, 2988-2993.	9.1	26
28	Colorimetry Technique for Scalable Characterization of Suspended Graphene. Nano Letters, 2016, 16, 6792-6796.	9.1	23
29	Coating Graphene Oxide with Lipid Bilayers Greatly Decreases Its Hemolytic Properties. Langmuir, 2017, 33, 8181-8191.	3.5	20
30	Advances in the fabrication of graphene transistors on flexible substrates. Beilstein Journal of Nanotechnology, 2017, 8, 467-474.	2.8	20
31	Ecotoxicological impact of graphene oxide: toxic effects on the model organism <i>Artemia franciscana</i> . Environmental Science: Nano, 2020, 7, 3605-3615.	4.3	20
32	Reaction kinetics of bond rotations in graphene. Carbon, 2016, 105, 176-182.	10.3	18
33	Noninvasive Scanning Raman Spectroscopy and Tomography for Graphene Membrane Characterization. Nano Letters, 2017, 17, 1504-1511.	9.1	17
34	Plasmon-Plasmon Interactions and Radiative Damping of Graphene Plasmons. ACS Photonics, 2018, 5, 3459-3465.	6.6	17
35	Stabilizing a graphene platform toward discrete components. Applied Physics Letters, 2016, 109, 253110.	3.3	16
36	Upscaling high-quality CVD graphene devices to 100 micron-scale and beyond. Applied Physics Letters, 2017, 110, .	3.3	16

#	ARTICLE	IF	CITATIONS
37	Laser-induced backward transfer of monolayer graphene. Applied Surface Science, 2020, 533, 147488.	6.1	14
38	Transparent conductors for Mid-infrared liquid crystal spatial light modulators. Thin Solid Films, 2018, 660, 411-420.	1.8	13
39	Spectral-Phase Interferometry Detection of Ochratoxin A via Aptamer-Functionalized Graphene Coated Glass. Nanomaterials, 2021, 11, 226.	4.1	13
40	Capillary pressure in graphene oxide nanoporous membranes for enhanced heat transport in Loop Heat Pipes for aeronautics. Experimental Thermal and Fluid Science, 2016, 78, 147-152.	2.7	11
41	Investigation of charges-driven interactions between graphene and different SiO ₂ surfaces. Carbon, 2019, 148, 336-343.	10.3	11
42	Case studies of electrical characterisation of graphene by terahertz time-domain spectroscopy. 2D Materials, 0, , .	4.4	11
43	Probing the mechanical properties of vertically-stacked ultrathin graphene/Al ₂ O ₃ heterostructures. Nanotechnology, 2019, 30, 185703.	2.6	9
44	Partial Reversibility of the Cytotoxic Effect Induced by Graphene-Based Materials in Skin Keratinocytes. Nanomaterials, 2020, 10, 1602.	4.1	8
45	A direct transfer solution for digital laser printing of CVD graphene. 2D Materials, 2021, 8, 045017.	4.4	7
46	International interlaboratory comparison of Raman spectroscopic analysis of CVD-grown graphene. 2D Materials, 2022, 9, 035010.	4.4	7
47	Rapid Selective Detection of Ascorbic Acid Using Graphene-Based Microfluidic Platform. IEEE Sensors Journal, 2021, 21, 16744-16753.	4.7	6
48	Controlling the threshold voltage of a semiconductor field-effect transistor by gating its graphene gate. Npj 2D Materials and Applications, 2022, 6, .	7.9	6
49	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. ACS Applied Nano Materials, 2021, 4, 5187-5197.	5.0	5
50	Graphene field effect transistor scaling for ultra-low-noise sensors. Nanotechnology, 2021, 32, 045502.	2.6	5
51	Semiquantitative Classification of Two Oxidizing Gases with Graphene-Based Gas Sensors. Chemosensors, 2022, 10, 68.	3.6	5
52	Surface analysis and surface doping of graphene on indium-tin-oxide. Thin Solid Films, 2019, 682, 57-62.	1.8	3