

Recep Zan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,467
citations

21
h-index

49
g-index

63
ext. papers

2,756
ext. citations

5.5
avg, IF

4.93
L-index

#	Paper	IF	Citations
59	Fabrication of Cu-rich CZTS thin films by two-stage process: Effect of gas flow-rate in sulfurization process. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129922	3.4	7
58	Substitutional boron doping of graphene using diborane in CVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 128, 114629	3	1
57	The effect of reduced graphene oxide addition on methane production from municipal organic solid waste. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2845-2851	3.5	2
56	Permanent Boron Doped Graphene with high Homogeneity using Phenylboronic Acid. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129629	3.4	4
55	Crystalline-silicon heterojunction solar cells with graphene incorporation 2021 , 229-257		
54	Symmetry of diffraction patterns of two-dimensional crystal structures. <i>Ultramicroscopy</i> , 2021 , 228, 113336		
53	Integration of graphene with GZO as TCO layer and its impact on solar cell performance. <i>Renewable Energy</i> , 2021 ,	8.1	2
52	The impact of reduced graphene oxide (rGO) supplementation on cattle manure anaerobic digestion: Focusing on process performance and microbial syntrophy. <i>Biochemical Engineering Journal</i> , 2021 , 173, 108080	4.2	1
51	Impact of in/ex situ annealing and reaction temperature on structural, optical and electrical properties of SnS thin films. <i>Journal of Molecular Structure</i> , 2021 , 1241, 130631	3.4	0
50	Hybrid transparent conductive electrode structure for solar cell application. <i>Renewable Energy</i> , 2021 , 180, 178-185	8.1	0
49	Impact of stacking order and annealing temperature on properties of CZTS thin films and solar cell performance. <i>Renewable Energy</i> , 2021 , 179, 1865-1874	8.1	2
48	Simultaneous synergistic effects of graphite addition and co-digestion of food waste and cow manure: Biogas production and microbial community. <i>Bioresource Technology</i> , 2020 , 309, 123365	11	12
47	Impact of sulfurization parameters on properties of CZTS thin films grown using quaternary target. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 20620-20631	2.1	4
46	The choice of Zn or ZnS layer in the stacked precursors for preparation of Cu ₂ ZnSnS ₄ (CZTS) thin films. <i>Superlattices and Microstructures</i> , 2020 , 146, 106669	2.8	5
45	Graphene for Si-based solar cells. <i>Journal of Molecular Structure</i> , 2020 , 1200, 127055	3.4	11
44	Nitrogen doping of graphene by CVD. <i>Journal of Molecular Structure</i> , 2020 , 1199, 127026	3.4	15
43	Local Plasmon Engineering in Doped Graphene. <i>ACS Nano</i> , 2018 , 12, 1837-1848	16.7	21

42	A Hydrogenated Amorphous Silicon (a-Si:H) Thin Films for Heterojunction Solar Cells: Structural and Optical Properties. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012024	0.3	4
41	Imaging Two Dimensional Materials and their Heterostructures. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012028	0.3	5
40	Eco-Friendly Synthesis and Characterization of Reduced Graphene Oxide. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012027	0.3	11
39	Ion implantation into two-dimensional materials for electronic tailoring - observing the behaviour of individual implanted atoms 2016 , 421-422		
38	Electron energy loss spectroscopy (EELS) fingerprints of p- and n-type doping in graphene 2016 , 829-830		
37	High-resolution imaging of biotite using focal series exit wavefunction restoration and the graphene mechanical exfoliation method. <i>Mineralogical Magazine</i> , 2015 , 79, 337-344	1.7	3
36	Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of p- and n-Type Doping. <i>ACS Nano</i> , 2015 , 9, 11398-407	16.7	64
35	VEELS Study of Boron and Nitrogen Doped Single Layer Graphene. <i>Microscopy and Microanalysis</i> , 2015 , 21, 743-744	0.5	
34	Under pressure: Control of strain, phonons and bandgap opening in rippled graphene. <i>Carbon</i> , 2015 , 91, 266-274	10.4	47
33	Electronic functionalisation of graphene via external doping and dosing. <i>International Materials Reviews</i> , 2015 , 60, 133-149	16.1	8
32	Silicon-carbon bond inversions driven by 60-keV electrons in graphene. <i>Physical Review Letters</i> , 2014 , 113, 115501	7.4	99
31	Atomically resolved imaging of highly ordered alternating fluorinated graphene. <i>Nature Communications</i> , 2014 , 5, 4902	17.4	37
30	Plasmonic Enhancement at Metal Atoms on Graphene Edges revealed by EFTEM. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012078	0.3	1
29	Electronic Structure Modification of Boron and Nitrogen Ion-Implanted Graphene Fingerprinted by STEM-EELS. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1734-1735	0.5	
28	Atom-by-Atom STEM Investigation of Defect Engineering in Graphene. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1736-1737	0.5	2
27	High Angle Dark Field Imaging of Two-Dimensional Crystals. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012077	0.3	
26	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014 , 24, 2865-2874	15.6	102
25	Ion implantation of graphene-toward IC compatible technologies. <i>Nano Letters</i> , 2013 , 13, 4902-7	11.5	151

24	Control of radiation damage in MoS(2) by graphene encapsulation. <i>ACS Nano</i> , 2013 , 7, 10167-74	16.7	187
23	Raman-scattering measurements and first-principles calculations of strain-induced phonon shifts in monolayer MoS2. <i>Physical Review B</i> , 2013 , 87,	3.3	417
22	Probing the bonding and electronic structure of single atom dopants in graphene with electron energy loss spectroscopy. <i>Nano Letters</i> , 2013 , 13, 4989-95	11.5	160
21	Mobile metal adatoms on single layer, bilayer, and trilayer graphene: An ab initio DFT study with van der Waals corrections correlated with electron microscopy data. <i>Physical Review B</i> , 2013 , 87,	3.3	68
20	Atomic Structure of Graphene and h-BN Layers and Their Interactions with Metals 2013 ,		9
19	Direct experimental evidence of metal-mediated etching of suspended graphene. <i>ACS Nano</i> , 2012 , 6, 4063-71	16.7	134
18	Metals on BN Studied by High Resolution Transmission Electron Microscopy. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012050	0.3	
17	Nanoscale electron diffraction and plasmon spectroscopy of single- and few-layer boron nitride. <i>Physical Review B</i> , 2012 , 85,	3.3	41
16	Single atom identification by energy dispersive x-ray spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 154101	3.4	67
15	Interaction of Metals with Suspended Graphene Observed by Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 953-8	6.4	75
14	Scanning tunnelling microscopy of suspended graphene. <i>Nanoscale</i> , 2012 , 4, 3065-8	7.7	64
13	Graphene reknits its holes. <i>Nano Letters</i> , 2012 , 12, 3936-40	11.5	195
12	Scanning Tunnelling Microscopy of Suspended Graphene. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012070	0.3	2
11	Scanning Transmission Electron Microscopy of Metal-Graphene Interaction. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012069	0.3	2
10	Identification of Single Atoms Using Energy Dispersive X-ray Spectroscopy. <i>Microscopy and Microanalysis</i> , 2012 , 18, 976-977	0.5	
9	Probing defects and impurity-induced electronic structure changes in single and double-layer hexagonal boron nitride sheets with STEM-EELS. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1526-1527	0.5	
8	Metal-graphene interaction studied via atomic resolution scanning transmission electron microscopy. <i>Nano Letters</i> , 2011 , 11, 1087-92	11.5	159
7	Scanning Transmission Electron Microscopy and Spectroscopy of Suspended Graphene 2011 ,		1

6	Metal-Graphene Interaction Studied via Atomic Resolution Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2011 , 17, 1504-1505	0.5	1
5	Imaging of Bernal stacked and misoriented graphene and boron nitride: experiment and simulation. <i>Journal of Microscopy</i> , 2011 , 244, 152-8	1.9	19
4	Evolution of gold nanostructures on graphene. <i>Small</i> , 2011 , 7, 2868-72	11	52
3	Graphene as a transparent conductive support for studying biological molecules by transmission electron microscopy. <i>Applied Physics Letters</i> , 2010 , 97, 153102	3.4	123
2	. <i>IEEE Transactions on Information Theory</i> , 1993 , 39, 1057-1064	2.8	67
1	Triethylborane as Single Boron and Carbon Source Toward Stable and Homogeneous Boron-Doped Graphene. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100540	1.6	