Recep Zan

List of Publications by Year
in descending order

60	3,044	279701 23	206029 48
papers	citations	h-index	g-index

63	63	63	5272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raman-scattering measurements and first-principles calculations of strain-induced phonon shifts in monolayer MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	1.1	495
2	Control of Radiation Damage in MoS₂ by Graphene Encapsulation. ACS Nano, 2013, 7, 10167-10174.	7.3	237
3	Graphene Reknits Its Holes. Nano Letters, 2012, 12, 3936-3940.	4.5	227
4	Probing the Bonding and Electronic Structure of Single Atom Dopants in Graphene with Electron Energy Loss Spectroscopy. Nano Letters, 2013, 13, 4989-4995.	4.5	187
5	Ion Implantation of Grapheneâ€"Toward IC Compatible Technologies. Nano Letters, 2013, 13, 4902-4907.	4.5	180
6	Metalâ^'Graphene Interaction Studied via Atomic Resolution Scanning Transmission Electron Microscopy. Nano Letters, 2011, 11, 1087-1092.	4.5	172
7	Direct Experimental Evidence of Metal-Mediated Etching of Suspended Graphene. ACS Nano, 2012, 6, 4063-4071.	7.3	141
8	Graphene as a transparent conductive support for studying biological molecules by transmission electron microscopy. Applied Physics Letters, 2010, 97, .	1.5	138
9	Siliconâ€"Carbon Bond Inversions Driven by 60-keV Electrons in Graphene. Physical Review Letters, 2014, 113, 115501.	2.9	123
10	Wideâ€Area Strain Sensors based upon Grapheneâ€Polymer Composite Coatings Probed by Raman Spectroscopy. Advanced Functional Materials, 2014, 24, 2865-2874.	7.8	122
11	Single atom identification by energy dispersive x-ray spectroscopy. Applied Physics Letters, 2012, 100, .	1.5	86
12	Interaction of Metals with Suspended Graphene Observed by Transmission Electron Microscopy. Journal of Physical Chemistry Letters, 2012, 3, 953-958.	2.1	85
13	Mobile metal adatoms on single layer, bilayer, and trilayer graphene: Anab initioDFT study with van der Waals corrections correlated with electron microscopy data. Physical Review B, 2013, 87, .	1.1	84
14	On complexity of trellis structure of linear block codes. IEEE Transactions on Information Theory, 1993, 39, 1057-1064.	1.5	83
15	Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of p- and n-Type Doping. ACS Nano, 2015, 9, 11398-11407.	7.3	75
16	Scanning tunnelling microscopy of suspended graphene. Nanoscale, 2012, 4, 3065.	2.8	74
17	Evolution of Gold Nanostructures on Graphene. Small, 2011, 7, 2868-2872.	5.2	56
18	Under pressure: Control of strain, phonons and bandgap opening in rippled graphene. Carbon, 2015, 91, 266-274.	5.4	55

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19	Nanoscale electron diffraction and plasmon spectroscopy of single- and few-layer boron nitride. Physical Review B, 2012, 85, .	1.1	46
20	Atomically resolved imaging of highly ordered alternating fluorinated graphene. Nature Communications, 2014, 5, 4902.	5.8	42
21	Nitrogen doping of graphene by CVD. Journal of Molecular Structure, 2020, 1199, 127026.	1.8	34
22	Simultaneous synergistic effects of graphite addition and co-digestion of food waste and cow manure: Biogas production and microbial community. Bioresource Technology, 2020, 309, 123365.	4.8	29
23	Local Plasmon Engineering in Doped Graphene. ACS Nano, 2018, 12, 1837-1848.	7.3	25
24	Imaging of Bernal stacked and misoriented graphene and boron nitride: experiment and simulation. Journal of Microscopy, 2011, 244, 152-158.	0.8	21
25	Eco-Friendly Synthesis and Characterization of Reduced Graphene Oxide. Journal of Physics: Conference Series, 2017, 902, 012027.	0.3	21
26	Graphene for Si-based solar cells. Journal of Molecular Structure, 2020, 1200, 127055.	1.8	21
27	Impact of stacking order and annealing temperature on properties of CZTS thin films and solar cell performance. Renewable Energy, 2021, 179, 1865-1874.	4.3	20
28	Fabrication of Cu-rich CZTS thin films by two-stage process: Effect of gas flow-rate in sulfurization process. Journal of Molecular Structure, 2021, 1230, 129922.	1.8	18
29	The choice of Zn or ZnS layer in the stacked precursors for preparation of Cu2ZnSnS4 (CZTS) thin films. Superlattices and Microstructures, 2020, 146, 106669.	1.4	15
30	Integration of graphene with GZO as TCO layer and its impact on solar cell performance. Renewable Energy, 2021, , .	4.3	11
31	Hybrid transparent conductive electrode structure for solar cell application. Renewable Energy, 2021, 180, 178-185.	4.3	11
32	Atomic Structure of Graphene and h-BN Layers and Their Interactions with Metals. , 0, , .		10
33	Permanent Boron Doped Graphene with high Homogeneity using Phenylboronic Acid. Journal of Molecular Structure, 2021, 1230, 129629.	1.8	10
34	Electronic functionalisation of graphene via external doping and dosing. International Materials Reviews, 2015, 60, 133-149.	9.4	9
35	Impact of in/ex situ annealing and reaction temperature on structural, optical and electrical properties of SnS thin films. Journal of Molecular Structure, 2021, 1241, 130631.	1.8	9
36	Metal-Graphene Interaction Studied via Atomic Resolution Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2011, 17, 1504-1505.	0.2	8

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37	Imaging Two Dimensional Materials and their Heterostructures. Journal of Physics: Conference Series, 2017, 902, 012028.	0.3	8
38	Impact of sulfurization parameters on properties of CZTS thin films grown using quaternary target. Journal of Materials Science: Materials in Electronics, 2020, 31, 20620-20631.	1.1	8
39	Substitutional boron doping of graphene using diborane in CVD. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114629.	1.3	7
40	The impact of reduced graphene oxide (rGO) supplementation on cattle manure anaerobic digestion: Focusing on process performance and microbial syntrophy. Biochemical Engineering Journal, 2021, 173, 108080.	1.8	7
41	A Hydrogenated Amorphous Silicon (a-Si:H) Thin Films for Heterojunction Solar Cells: Structural and Optical Properties. Journal of Physics: Conference Series, 2017, 902, 012024.	0.3	6
42	The effect of reduced graphene oxide addition on methane production from municipal organic solid waste. Journal of Chemical Technology and Biotechnology, 2021, 96, 2845-2851.	1.6	6
43	Scanning Tunnelling Microscopy of Suspended Graphene. Journal of Physics: Conference Series, 2012, 371, 012070.	0.3	5
44	Integration of single layer graphene into CZTS thin film solar cells. Journal of Alloys and Compounds, 2022, 920, 166041.	2.8	5
45	High-resolution imaging of biotite using focal series exit wavefunction restoration and the graphene mechanical exfoliation method. Mineralogical Magazine, 2015, 79, 337-344.	0.6	4
46	Scanning Transmission Electron Microscopy and Spectroscopy of Suspended Graphene. , 0, , .		2
47	Atom-by-Atom STEM Investigation of Defect Engineering in Graphene. Microscopy and Microanalysis, 2014, 20, 1736-1737.	0.2	2
48	Plasmonic Enhancement at Metal Atoms on Graphene Edges revealed by EFTEM. Journal of Physics: Conference Series, 2014, 522, 012078.	0.3	1
49	Nitrojen KatkÄ±lÄ± Grafen Film Sentezi ve Karakterizasyonu. Journal of Polytechnic, 2022, 25, 667-673.	0.4	1
50	Scanning Transmission Electron Microscopy of Metal-Graphene Interaction. Journal of Physics: Conference Series, 2012, 371, 012069.	0.3	0
51	Identification of Single Atoms Using Energy Dispersive X-ray Spectroscopy. Microscopy and Microanalysis, 2012, 18, 976-977.	0.2	0
52	Probing defects and impurity-induced electronic structure changes in single and double-layer hexagonal boron nitride sheets with STEM-EELS. Microscopy and Microanalysis, 2012, 18, 1526-1527.	0.2	0
53	Metals on BN Studied by High Resolution Transmission Electron Microscopy. Journal of Physics: Conference Series, 2012, 371, 012050.	0.3	0
54	High Angle Dark Field Imaging of Two-Dimensional Crystals. Journal of Physics: Conference Series, 2014, 522, 012077.	0.3	0

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55	Electronic Structure Modification of Boron and Nitrogen Ion-Implanted Graphene Fingerprinted by STEM-EELS. Microscopy and Microanalysis, 2014, 20, 1734-1735.	0.2	0
56	VEELS Study of Boron and Nitrogen Doped Single Layer Graphene. Microscopy and Microanalysis, 2015, 21, 743-744.	0.2	0
57	Crystalline-silicon heterojunction solar cells with graphene incorporation. , 2021, , 229-257.		0
58	Nikel Folyo Ãœzerinde BÃ¼yÃ¼me SÃ¼resi ve Metan AkÄ±ÅŸÄ±nÄ±n Grafen Sentezi Ãœzerindeki Etkisinin Ä°ncelenmesi. Journal of Polytechnic, 0, , .	0.4	0
59	Symmetry of diffraction patterns of two-dimensional crystal structures. Ultramicroscopy, 2021, 228, 113336.	0.8	0
60	Triethylborane as Single Boron and Carbon Source towards Stable and Homogeneous Boron Doped Graphene. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100540.	0.8	0