

Mehrdad Shaygan

List of Publications by Year in descending order

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34
papers

966
citations

516710

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580821

25
g-index

34
all docs

34
docs citations

34
times ranked

1808
citing authors

#	ARTICLE	IF	CITATIONS
1	A Growth Mechanism for Free-Standing Vertical Graphene. Nano Letters, 2014, 14, 3064-3071.	9.1	221
2	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. Carbon, 2014, 72, 372-380.	10.3	121
3	Toward Highly Sensitive and Energy Efficient Ammonia Gas Detection with Modified Single-Walled Carbon Nanotubes at Room Temperature. ACS Sensors, 2018, 3, 79-86.	7.8	106
4	Flexible Hall sensors based on graphene. Nanoscale, 2016, 8, 7683-7687.	5.6	61
5	Single-crystalline CdTe nanowire field effect transistors as nanowire-based photodetector. Physical Chemistry Chemical Physics, 2014, 16, 22687-22693.	2.8	54
6	High performance metal-insulator-graphene diodes for radio frequency power detection application. Nanoscale, 2017, 9, 11944-11950.	5.6	37
7	The effect of nano sized SrFe ₁₂ O ₁₉ additions on the magnetic properties of chromium-doped strontium-hexaferrite ceramics. Journal of Materials Science: Materials in Electronics, 2011, 22, 1297-1302.	2.2	32
8	Optoelectronic switching of nanowire-based hybrid organic/oxide/semiconductor field-effect transistors. Nano Research, 2015, 8, 1229-1240.	10.4	32
9	Low Resistive Edge Contacts to CVD-Grown Graphene Using a CMOS Compatible Metal. Annalen Der Physik, 2017, 529, 1600410.	2.4	29
10	All CVD Boron Nitride Encapsulated Graphene FETs With CMOS Compatible Metal Edge Contacts. IEEE Transactions on Electron Devices, 2018, 65, 4129-4134.	3.0	27
11	Flexible One-Dimensional Metal-Insulator-Graphene Diode. ACS Applied Electronic Materials, 2019, 1, 945-950.	4.3	26
12	Tuning the mechanical properties of vertical graphene sheets through atomic layer deposition. Nanotechnology, 2016, 27, 155701.	2.6	25
13	Graphene integrated circuits: new prospects towards receiver realisation. Nanoscale, 2018, 10, 93-99.	5.6	20
14	Zero-Bias 50-dB Dynamic Range Linear-in-dB V-Band Power Detector Based on CVD Graphene Diode on Glass. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2018-2024.	4.6	18
15	Metal-Insulator-Graphene Diode Mixer Based on CVD Graphene-on-Glass. IEEE Electron Device Letters, 2018, 39, 1104-1107.	3.9	18
16	Highly sensitive photodetectors using ZnTe/ZnO core/shell nanowire field effect transistors with a tunable core/shell ratio. Journal of Materials Chemistry C, 2016, 4, 2040-2046.	5.5	17
17	Optimization of the magnetic properties and microstructure of Co ₂ +La ³⁺ substituted strontium hexaferrite by varying the production parameters. Ceramics International, 2014, 40, 5675-5680.	4.8	16
18	Enhancing the stiffness of vertical graphene sheets through ion beam irradiation and fluorination. Nanotechnology, 2017, 28, 295701.	2.6	13

#	ARTICLE	IF	CITATIONS
19	In Situ Observation of Melting Behavior of ZnTe Nanowires. Journal of Physical Chemistry C, 2014, 118, 15061-15067.	3.1	12
20	Fabrication of vertical graphene-based nanocomposite thin films. Journal of Materials Research, 2015, 30, 617-625.	2.6	11
21	6â€“12 GHz MMIC Double-Balanced Upconversion Mixer based on Graphene Diode. , 2018, , .		9
22	Probing the mechanical properties of vertically-stacked ultrathin graphene/Al ₂ O ₃ heterostructures. Nanotechnology, 2019, 30, 185703.	2.6	9
23	Bandgap engineering of Cd _x Zn _{1-x} Te nanowires. Nanoscale, 2013, 5, 932.	5.6	8
24	Post-growth modification of electrical properties of ZnTe nanowires. Chemical Physics Letters, 2012, 543, 117-120.	2.6	7
25	0.15 mm ² , DC-70GHz, Graphene-Based Power Detector with Improved Sensitivity and Dynamic Range. , 2018, , .		7
26	X-Band MMIC Balanced Frequency Doubler based on Graphene Diodes. , 2019, , .		7
27	Large-Signal Metal-Insulator-Graphene Diode Model on a Flexible Substrate for Microwave Application. , 2018, , .		6
28	Zero-bias, 50 dB dynamic range, V-band power detector based on CVD graphene-on-glass. , 2017, , .		5
29	The Effect of Chromium and Aluminium Ion Substitution on Phase Analysis, Microstructure and Magnetic Properties of Sr-Hexaferrite Ceramics and Nanopowders Synthesized by the Auto Combustion Route. Molecular Crystals and Liquid Crystals, 2012, 555, 94-103.	0.9	4
30	Millimeter-wave graphene-based varactor for flexible electronics. , 2017, , .		4
31	Annealing effect on the thermal conductivity of thermoelectric ZnTe nanowires. Materials Letters, 2014, 135, 87-91.	2.6	2
32	Graphene-Diode-Based Frequency Conversion Mixers for High-Frequency Applications. , 2019, , .		1
33	Nanowire Field Effect Transistors in Optoelectronics. , 2014, , 187-224.		1
34	A Study on the Stoichiometry of One-Dimensional Nanostructures. Advances in Condensed Matter Physics, 2015, 2015, 1-6.	1.1	0