

Avinash Patsha

List of Publications by Year in descending order

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27
papers

377
citations

687363

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27
times ranked

618
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright excitonic multiplexing mediated by dark exciton transition in two-dimensional TMDCs at room temperature. <i>Materials Horizons</i> , 2022, 9, 1089-1098.	12.2	8
2	Halide chemical vapor deposition of 2D semiconducting atomically-thin crystals: From self-seeded to epitaxial growth. <i>Applied Materials Today</i> , 2022, 26, 101379.	4.3	5
3	Growth-Etch Metal-Organic Chemical Vapor Deposition Approach of WS ₂ Atomic Layers. <i>ACS Nano</i> , 2021, 15, 526-538.	14.6	56
4	Nano-spectroscopic and nanoscopic imaging of single GaN nanowires in the sub-diffraction limit. <i>Journal of Applied Physics</i> , 2020, 127, 173103.	2.5	3
5	Large-Scale characterization of Two-Dimensional Monolayer MoS ₂ Island Domains Using Spectroscopic Ellipsometry and Reflectometry. <i>Applied Surface Science</i> , 2020, 524, 146418.	6.1	18
6	Polarized Tip-Enhanced Raman Spectroscopy in Understanding Metal-to-Insulator and Structural Phase Transition in VO ₂ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 11189-11196.	3.1	14
7	Seeded-growth of WS ₂ atomic layers: the effect on chemical and optical properties. <i>Nanoscale</i> , 2019, 11, 22493-22503.	5.6	22
8	Size-Dependent Localized Phonon Population in Semiconducting Si Nanowires. <i>Nano Letters</i> , 2018, 18, 7181-7187.	9.1	9
9	Effect of Scattering Efficiency in the Tip-Enhanced Raman Spectroscopic Imaging of Nanostructures in the Sub-diffraction Limit. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26967-26975.	3.1	10
10	Spectroscopic investigation of native defect induced electron-phonon coupling in GaN nanowires. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 275103.	2.8	15
11	Effect of Ar ⁺ implantation on the optical properties of Al/GaN nanowires. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
12	Probing Localized Surface Plasmons of Trisoctahedral Gold Nanocrystals for Surface Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27003-27012.	3.1	19
13	Optical properties of Mg doped p-type GaN nanowires. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
14	Localized tip enhanced Raman spectroscopic study of impurity incorporated single GaN nanowire in the sub-diffraction limit. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	15
15	Optical Properties of Monodispersed AlGaN Nanowires in the Single-Prong Growth Mechanism. <i>Crystal Growth and Design</i> , 2015, 15, 1311-1318.	3.0	14
16	Effect of substrate heating and microwave attenuation on the catalyst free growth and field emission of carbon nanotubes. <i>Carbon</i> , 2015, 94, 256-265.	10.3	27
17	Nonpolar p-GaN/n-Si heterojunction diode characteristics: a comparison between ensemble and single nanowire devices. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 395102.	2.8	8
18	Optically confined polarized resonance Raman studies in identifying crystalline orientation of sub-diffraction limited AlGaN nanostructure. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	12

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19	Localized Charge Transfer Process and Surface Band Bending in Methane Sensing by GaN Nanowires. Journal of Physical Chemistry C, 2015, 119, 21251-21260.	3.1	35
20	Direct Evidence of Mg Incorporation Pathway in Vapor-liquid-solid Grown p-type Nonpolar GaN Nanowires. Journal of Physical Chemistry C, 2014, 118, 24165-24172.	3.1	21
21	Raman Spectral Mapping of III-V Nitride and Graphene Nanostructures. Mapan - Journal of Metrology Society of India, 2013, 28, 279-283.	1.5	0
22	Influence of oxygen in architecting large scale nonpolar GaN nanowires. Journal of Materials Chemistry C, 2013, 1, 8086.	5.5	22
23	Probing crystallographic orientation of a single GaN nanotube using polarized Raman imaging. Journal of Raman Spectroscopy, 2013, 44, 651-654.	2.5	13
24	Catalysis free growth of GaN nanostructures. , 2012, , .		0
25	Self-catalyzed anisotropic growth of GaN spirals. , 2012, , .		0
26	Raman imaging on high-quality graphene grown by hot-filament chemical vapor deposition. Journal of Raman Spectroscopy, 2012, 43, 1864-1867.	2.5	29
27	Growth of GaN nanostructures on graphene. , 2011, , .		0