

Rohan Dhall

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11293355/publications.pdf>

Version: 2024-02-01

33
papers

1,378
citations

623734

14
h-index

526287

27
g-index

34
all docs

34
docs citations

34
times ranked

2817
citing authors

#	ARTICLE	IF	CITATIONS
1	CuBi ₂ O ₄ : Electronic Structure, Optical Properties, and Photoelectrochemical Performance Limitations of the Photocathode. Chemistry of Materials, 2021, 33, 934-945.	6.7	45
2	Measuring nanoscale thermal gradients in suspended MoS ₂ with STEM-EELS. Applied Physics Letters, 2019, 115, .	3.3	9
3	Beneficial CuO Phase Segregation in the Ternary p-Type Oxide Photocathode CuBi ₂ O ₄ . ACS Applied Energy Materials, 2019, 2, 4111-4117.	5.1	48
4	Probing collective oscillation of d-orbital electrons at the nanoscale. Applied Physics Letters, 2018, 112, 061102.	3.3	1
5	Charge storage mechanism and degradation of P2-type sodium transition metal oxides in aqueous electrolytes. Journal of Materials Chemistry A, 2018, 6, 22266-22276.	10.3	22
6	A Novel Template for in-situ Microscopy to Reveal Ferroelectric Switching Mechanisms Across Length Scales. Microscopy and Microanalysis, 2018, 24, 1808-1809.	0.4	0
7	Defect-Induced Photoluminescence Enhancement and Corresponding Transport Degradation in Individual Suspended Carbon Nanotubes. Physical Review Applied, 2018, 9, .	3.8	2
8	Taguchi analysis of parameters for small-diameter single wall carbon nanotube growth. AIP Advances, 2017, 7, 095301.	1.3	2
9	Highly efficient, high speed vertical photodiodes based on few-layer MoS ₂ . 2D Materials, 2017, 4, 015004.	4.4	22
10	Emergence of the Collective Oscillations in Electron Energy Loss Spectra of d-electrons in III-V Nitrides. Microscopy and Microanalysis, 2017, 23, 376-377.	0.4	2
11	Structure and Chemistry of Oxide Surface Reconstructions in III-Nitrides Observed using STEM EELS. Microscopy and Microanalysis, 2017, 23, 1444-1445.	0.4	0
12	Novel FIB-less Fabrication of Electrical Devices for in-situ Biasing. Microscopy and Microanalysis, 2017, 23, 1502-1503.	0.4	0
13	Nanoscale Mapping of Interfacial Electrical Transport in Graphene-MoS ₂ Heterostructures with STEM-EBIC. Microscopy and Microanalysis, 2016, 22, 1552-1553.	0.4	0
14	Layer Control of WSe ₂ via Selective Surface Layer Oxidation. ACS Nano, 2016, 10, 6836-6842.	14.6	77
15	Enhanced photoluminescence in air-suspended carbon nanotubes by oxygen doping. Applied Physics Letters, 2016, 109, .	3.3	7
16	Charge neutral MoS ₂ field effect transistors through oxygen plasma treatment. Journal of Applied Physics, 2016, 120, .	2.5	20
17	Strong Circularly Polarized Photoluminescence from Multilayer MoS ₂ Through Plasma Driven Direct-Gap Transition. ACS Photonics, 2016, 3, 310-314.	6.6	12
18	Imaging interfacial electrical transport in graphene-MoS ₂ heterostructures with electron-beam-induced-currents. Applied Physics Letters, 2015, 107, 223104.	3.3	18

#	ARTICLE	IF	CITATIONS
19	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015, 27, 4423-4429.	21.0	378
20	Applications of Plasmon Energy Expansion Thermometry. <i>Microscopy and Microanalysis</i> , 2015, 21, 663-664.	0.4	0
21	Introduction to Plasmon Energy Expansion Thermometry. <i>Microscopy and Microanalysis</i> , 2015, 21, 1907-1908.	0.4	0
22	Indirect Band Gap Emission by Hot Electron Injection in Metal/MoS ₂ and Metal/WSe ₂ Heterojunctions. <i>Nano Letters</i> , 2015, 15, 3977-3982.	9.1	60
23	Nanoscale temperature mapping in operating microelectronic devices. <i>Science</i> , 2015, 347, 629-632.	12.6	253
24	Direct Bandgap Transition in Many-Layer MoS ₂ by Plasma-Induced Layer Decoupling. <i>Advanced Materials</i> , 2015, 27, 1573-1578.	21.0	102
25	Nonideal Diode Behavior and Bandgap Renormalization in Carbon Nanotube p-n Junctions. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 41-45.	2.0	9
26	Clamping Instability and van der Waals Forces in Carbon Nanotube Mechanical Resonators. <i>Nano Letters</i> , 2014, 14, 2426-2430.	9.1	24
27	Improved Temperature Determination from Plasmon Energy Shifts in Aluminum. <i>Microscopy and Microanalysis</i> , 2014, 20, 200-201.	0.4	0
28	Evidence for structural phase transitions and large effective band gaps in quasi-metallic ultra-clean suspended carbon nanotubes. <i>Nano Research</i> , 2013, 6, 736-744.	10.4	5
29	Zener Tunneling and Photocurrent Generation in Quasi-Metallic Carbon Nanotube pn-Devices. <i>Nano Letters</i> , 2013, 13, 5129-5134.	9.1	13
30	Pronounced electron-phonon interactions in ultraclean suspended carbon nanotubes. <i>Physical Review B</i> , 2012, 86, .	3.2	4
31	Electromechanical resonance behavior of suspended single-walled carbon nanotubes under high bias voltages. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 085008.	2.6	2
32	Tuning mechanical modes and influence of charge screening in nanowire resonators. <i>Physical Review B</i> , 2010, 81, .	3.2	39
33	Probing thermal expansion of graphene and modal dispersion at low-temperature using graphene nanoelectromechanical systems resonators. <i>Nanotechnology</i> , 2010, 21, 165204.	2.6	201