

Kiran Kumar Kovi

List of Publications by Year in descending order

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papers

283
citations

1162889

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20
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20
docs citations

20
times ranked

411
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation, transport and detection of valley-polarized electrons in diamond. Nature Materials, 2013, 12, 760-764.	13.3	130
2	Inversion in Metal-Oxide Semiconductor Capacitors on Boron-Doped Diamond. IEEE Electron Device Letters, 2015, 36, 603-605.	2.2	22
3	Hole transport in single crystal synthetic diamond at low temperatures. Applied Physics Letters, 2013, 102, 152113.	1.5	15
4	Stability of polarized states for diamond valleytronics. Applied Physics Letters, 2014, 104, .	1.5	14
5	Single crystal diamond for infrared sensing applications. Applied Physics Letters, 2014, 105, .	1.5	13
6	Mean transverse energy of ultrananocrystalline diamond photocathode. Applied Physics Letters, 2019, 114, .	1.5	11
7	A Valleytronic Diamond Transistor: Electrostatic Control of Valley Currents and Charge-State Manipulation of NV Centers. Nano Letters, 2021, 21, 868-874.	4.5	11
8	High power conditioning and benchmarking of planar nitrogen-incorporated ultrananocrystalline diamond field emission electron source. Physical Review Accelerators and Beams, 2019, 22, .	0.6	10
9	Demonstration of nitrogen-incorporated ultrananocrystalline diamond photocathodes in a RF gun environment. Applied Physics Letters, 2020, 117, .	1.5	8
10	A charge transport study in diamond, surface passivated by high- κ dielectric oxides. Applied Physics Letters, 2014, 105, .	1.5	7
11	Low temperature conduction-band transport in diamond. Applied Physics Letters, 2016, 109, .	1.5	7
12	Photogating-driven enhanced responsivity in a few-layered ReSe ₂ phototransistor. Journal of Materials Chemistry C, 2021, 9, 12168-12176.	2.7	7
13	Silicon Oxide Passivation of Single-Crystalline CVD Diamond Evaluated by the Time-of-Flight Technique. ECS Solid State Letters, 2014, 3, P65-P68.	1.4	6
14	Nanodiamond Thin Film Field Emitter Cartridge for Miniature High-Gradient Radio Frequency X-Band Electron Injector. IEEE Transactions on Electron Devices, 2018, 65, 1132-1138.	1.6	6
15	On the transition between space-charge-free and space-charge-limited conduction in diamond. Solid State Sciences, 2011, 13, 1065-1067.	1.5	4
16	Submicrometer ultrananocrystalline diamond films processed in oxygen and hydrogen plasma and analyzed by UV-vis spectroscopy: Thickness and optical constant results. Surface Science Spectra, 2020, 27, 026601.	0.3	4
17	High-temperature deep-level transient spectroscopy system for defect studies in wide-bandgap semiconductors. Review of Scientific Instruments, 2019, 90, 063903.	0.6	3
18	Fluorinated graphene oxide, nanocrystalline diamond multilayer thin films for optical and electromagnetic limiting applications. Emergent Materials, 2021, 4, 525-530.	3.2	3

#	ARTICLE	IF	CITATIONS
19	Time-of-Flight Characterization of Single-crystalline CVD Diamond with Different Surface Passivation Layers. Materials Research Society Symposia Proceedings, 2011, 1282, 47.	0.1	1
20	Semi-isotropic surface etching of diamond using a Faraday cage. Diamond and Related Materials, 2015, 58, 185-189.	1.8	1