Kiran Kumar Kovi

List of Publications by Year
in descending order

20	283	1162889 8	887953 17
papers	citations	h-index	g-index

20	20	20	411
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Photogating-driven enhanced responsivity in a few-layered ReSe₂ phototransistor. Journal of Materials Chemistry C, 2021, 9, 12168-12176.	2.7	7
3	Fluorinated graphene oxide, nanocrystalline diamond multilayer thin films for optical and electromagnetic limiting applications. Emergent Materials, 2021, 4, 525-530.	3.2	3
4	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
5	Demonstration of nitrogen-incorporated ultrananocrystalline diamond photocathodes in a RF gun environment. Applied Physics Letters, 2020, 117, .	1.5	8
6	High-temperature deep-level transient spectroscopy system for defect studies in wide-bandgap semiconductors. Review of Scientific Instruments, 2019, 90, 063903.	0.6	3
7	Mean transverse energy of ultrananocrystalline diamond photocathode. Applied Physics Letters, 2019, 114, .	1.5	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	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
10	Low temperature conduction-band transport in diamond. Applied Physics Letters, 2016, 109, .	1.5	7
11	Inversion in Metalâ€“Oxideâ€“Semiconductor Capacitors on Boron-Doped Diamond. IEEE Electron Device Letters, 2015, 36, 603-605.	2.2	22
12	Semi-isotropic surface etching of diamond using a Faraday cage. Diamond and Related Materials, 2015, 58, 185-189.	1.8	1
13	A charge transport study in diamond, surface passivated by high-k dielectric oxides. Applied Physics Letters, 2014, 105, .	1.5	7
14	Single crystal diamond for infrared sensing applications. Applied Physics Letters, 2014, 105, .	1.5	13
15	Stability of polarized states for diamond valleytronics. Applied Physics Letters, 2014, 104, .	1.5	14
16	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
17	Generation, transport and detection of valley-polarized electrons in diamond. Nature Materials, 2013, 12, 760-764.	13.3	130
18	Hole transport in single crystal synthetic diamond at low temperatures. Applied Physics Letters, 2013, 102, 152113.	1.5	15

#	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	On the transition between space-charge-free and space-charge-limited conduction in diamond. Solid State Sciences, 2011, 13, 1065-1067.	1.5	4