Maneesh Chandran

List of Publications by Year
in descending order

34 papers	609 citations	516710 16 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	604 citing authors

#	Article	IF	Citations
1	Growth and characterization of integrated nano- and microcrystalline dual layer composite diamond coatings on WCâ€“Co substrates. International Journal of Refractory Metals and Hard Materials, 2013, 37, 127-133.	3.8	55
2	Diamond film deposition on WCâ€“Co and steel substrates with a CrN interlayer for tribological applications. Journal Physics D: Applied Physics, 2016, 49, 213002.	2.8	42
3	Nitrogen termination of single crystal (100) diamond surface by radio frequency N2 plasma process: An in-situ x-ray photoemission spectroscopy and secondary electron emission studies. Applied Physics Letters, 2015, 107, .	3.3	41
4	Wear performance of diamond coated WC-Co tools with a CrN interlayer. Diamond and Related Materials, 2017, 73, 47-55.	3.9	38
5	Effect of boron doping on first-order Raman scattering in superconducting boron doped diamond films. Applied Physics Letters, 2017, 110, .	3.3	35
6	Engineered CVD Diamond Coatings for Machining and Tribological Applications. Jom, 2015, 67, 1565-1577.	1.9	33
7	Tribocorrosion and electrochemical behaviour of nanocrystalline diamond coated Ti based alloys for orthopaedic application. Tribology International, 2017, 106, 88-100.	5.9	33
8	Chemical vapor deposition of diamond coatings on tungsten carbide (WCâ€“Co) riveting inserts. International Journal of Refractory Metals and Hard Materials, 2013, 37, 117-120.	3.8	30
9	High wear performance of the dual-layer graded composite diamond coated cutting tools. International Journal of Refractory Metals and Hard Materials, 2015, 48, 24-30.	3.8	28
10	Anomalous room temperature magnetoresistance in brownmillerite Ca₂Fe₂O₅. RSC Advances, 2015, 5, 92549-92553.	3.6	27
11	Incorporation of nitrogen into polycrystalline diamond surfaces by RF plasma nitridation process at different temperatures: Bonding configuration and thermal stabilty studies by in situ XPS and HREELS. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2487-2495.	1.8	25
12	Integration of perovskite PZT thin films on diamond substrate without buffer layer. Journal Physics D: Applied Physics, 2012, 45, 202001.	2.8	22
13	Studies on corrosion and wear behavior of submicrometric diamond coated Ti alloys. Tribology International, 2013, 63, 132-140.	5.9	22
14	Interplay between adhesion and interfacial properties of diamond films deposited on WC-10%Co substrates using a CrN interlayer. Diamond and Related Materials, 2016, 70, 167-172.	3.9	22
15	Nanocrystalline diamond coatings on the interior of WCâ€“Co dies for drawing carbon steel tubes: Enhancement of tube properties. Diamond and Related Materials, 2014, 50, 33-37.	3.9	21
16	A comparative study on wear behavior of TiN and diamond coated WCâ€“Co substrates against hypereutectic Alâ€“Si alloys. Applied Surface Science, 2012, 261, 520-527.	6.1	17
17	Fabrication of a nanometer thick nitrogen delta doped layer at the sub-surface region of (100) diamond. Applied Physics Letters, 2016, 109, .	3.3	15
18	The influence of deposition temperature on the adhesion of diamond films deposited on WCâ€“Co substrates using a Crâ€“N interlayer. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2628-2635.	1.8	12

#	Article	IF	Citations
19	Adhesive Microcrystalline Diamond Coating on Surface Modified Non-Carbide Forming Substrate Using Hot Filament CVD. Materials Express, 2012, 2, 115-120.	0.5	10
20	Incorporation of low energy activated nitrogen onto HOPG surface: Chemical states and thermal stability studies by in-situ XPS and Raman spectroscopy. Applied Surface Science, 2016, 382, 192-201.	6.1	10
21	Raman scattering of nitrogen incorporated diamond thin films grown by hot filament chemical vapor deposition. Thin Solid Films, 2018, 653, 284-292.	1.8	10
22	Growth and characterization of diamond particles, diamond films, and CNT-diamond composite films deposited simultaneously by hot filament CVD. Journal of Materials Science, 2015, 50, 144-156.	3.7	9
23	Effect of temperature on the stability of diamond particles and continuous thin films by Raman imaging. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	8
24	Formation of one-dimensional ZnO nanowires from screw-dislocation-driven two-dimensional hexagonal stacking on diamond substrate using nanoparticle-assisted pulsed laser deposition. Journal Physics D: Applied Physics, 2014, 47, 034016.	2.8	7
25	Fabrication of microchannels in polycrystalline diamond using pre-fabricated Si substrates. Journal of Applied Physics, 2017, 122, .	2.5	6
26	Synthesis, Characterization, and Applications of Diamond Films. , 2019, , 183-224.		6
27	Visible sub-band gap photoelectron emission from nitrogen doped and undoped polycrystalline diamond films. Applied Surface Science, 2017, 410, 414-422.	6.1	5
28	T suppression and impurity band structure in overdoped superconducting Boron-doped diamond films. Physica C: Superconductivity and Its Applications, 2018, 555, 28-34.	1.2	5
29	Diamondâ€"the ultimate material for exploring physics of spin-defects for quantum technologies and diamondtronics. Journal Physics D: Applied Physics, 2022, 55, 333002.	2.8	4
30	The impact of surface hydrogenation on the thermionic electron emission from polycrystalline diamond films. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2238-2243.	1.8	3
31	Dissociative adsorption of molecular deuterium and thermal stability onto hydrogenated, bare and ion beam damaged poly- and single crystalline diamond surfaces. Surface Science, 2015, 642, 16-21.	1.9	3
32	Hydrogen retention and nitrogen distribution in delta-doped diamond films. Materials Today Communications, 2018, 17, 413-418.	1.9	3
33	Status review of the science and technology of PZT/diamond heterostructures and their applications. Journal of Materials Research, 2021, 36, 4725-4745.	2.6	1
34	Diamond deposition on WCâ€"Co substrates with interlayers for engineering applications. , 2022, , 311-330.		1