

# Maneesh Chandran

## List of Publications by Year in descending order

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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	Diamond—the ultimate material for exploring physics of spin-defects for quantum technologies and diamondtronics. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 333002.	2.8	4
2	Diamond deposition on WC–Co substrates with interlayers for engineering applications. , 2022, , 311-330.		1
3	Status review of the science and technology of PZT/diamond heterostructures and their applications. <i>Journal of Materials Research</i> , 2021, 36, 4725-4745.	2.6	1
4	Synthesis, Characterization, and Applications of Diamond Films. , 2019, , 183-224.		6
5	Raman scattering of nitrogen incorporated diamond thin films grown by hot filament chemical vapor deposition. <i>Thin Solid Films</i> , 2018, 653, 284-292.	1.8	10
6	T suppression and impurity band structure in overdoped superconducting Boron-doped diamond films. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 555, 28-34.	1.2	5
7	Hydrogen retention and nitrogen distribution in delta-doped diamond films. <i>Materials Today Communications</i> , 2018, 17, 413-418.	1.9	3
8	Effect of boron doping on first-order Raman scattering in superconducting boron doped diamond films. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	35
9	Visible sub-band gap photoelectron emission from nitrogen doped and undoped polycrystalline diamond films. <i>Applied Surface Science</i> , 2017, 410, 414-422.	6.1	5
10	Wear performance of diamond coated WC-Co tools with a CrN interlayer. <i>Diamond and Related Materials</i> , 2017, 73, 47-55.	3.9	38
11	Tribocorrosion and electrochemical behaviour of nanocrystalline diamond coated Ti based alloys for orthopaedic application. <i>Tribology International</i> , 2017, 106, 88-100.	5.9	33
12	Fabrication of microchannels in polycrystalline diamond using pre-fabricated Si substrates. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	6
13	Fabrication of a nanometer thick nitrogen delta doped layer at the sub-surface region of (100) diamond. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	15
14	Diamond film deposition on WC–Co and steel substrates with a CrN interlayer for tribological applications. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 213002.	2.8	42
15	Incorporation of low energy activated nitrogen onto HOPG surface: Chemical states and thermal stability studies by in-situ XPS and Raman spectroscopy. <i>Applied Surface Science</i> , 2016, 382, 192-201.	6.1	10
16	Interplay between adhesion and interfacial properties of diamond films deposited on WC-10%Co substrates using a CrN interlayer. <i>Diamond and Related Materials</i> , 2016, 70, 167-172.	3.9	22
17	Nitrogen termination of single crystal (100) diamond surface by radio frequency N <sub>2</sub> plasma process: An <i>in-situ</i> x-ray photoemission spectroscopy and secondary electron emission studies. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	41
18	Incorporation of nitrogen into polycrystalline diamond surfaces by RF plasma nitridation process at different temperatures: Bonding configuration and thermal stability studies by <i>in situ</i> XPS and HREELS. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2487-2495.	1.8	25

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19	The influence of deposition temperature on the adhesion of diamond films deposited on WC-Co substrates using a Cr-N interlayer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2628-2635.	1.8	12
20	Engineered CVD Diamond Coatings for Machining and Tribological Applications. <i>Jom</i> , 2015, 67, 1565-1577.	1.9	33
21	Anomalous room temperature magnetoresistance in brownmillerite $\text{Ca}_{2-x}\text{Fe}_x\text{O}_5$ . <i>RSC Advances</i> , 2015, 5, 92549-92553.	3.6	27
22	Dissociative adsorption of molecular deuterium and thermal stability onto hydrogenated, bare and ion beam damaged poly- and single crystalline diamond surfaces. <i>Surface Science</i> , 2015, 642, 16-21.	1.9	3
23	Growth and characterization of diamond particles, diamond films, and CNT-diamond composite films deposited simultaneously by hot filament CVD. <i>Journal of Materials Science</i> , 2015, 50, 144-156.	3.7	9
24	High wear performance of the dual-layer graded composite diamond coated cutting tools. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 24-30.	3.8	28
25	Nanocrystalline diamond coatings on the interior of WC-Co dies for drawing carbon steel tubes: Enhancement of tube properties. <i>Diamond and Related Materials</i> , 2014, 50, 33-37.	3.9	21
26	The impact of surface hydrogenation on the thermionic electron emission from polycrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2238-2243.	1.8	3
27	Formation of one-dimensional ZnO nanowires from screw-dislocation-driven two-dimensional hexagonal stacking on diamond substrate using nanoparticle-assisted pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 034016.	2.8	7
28	Effect of temperature on the stability of diamond particles and continuous thin films by Raman imaging. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	8
29	Growth and characterization of integrated nano- and microcrystalline dual layer composite diamond coatings on WC-Co substrates. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 37, 127-133.	3.8	55
30	Chemical vapor deposition of diamond coatings on tungsten carbide (WC-Co) riveting inserts. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 37, 117-120.	3.8	30
31	Studies on corrosion and wear behavior of submicrometric diamond coated Ti alloys. <i>Tribology International</i> , 2013, 63, 132-140.	5.9	22
32	Adhesive Microcrystalline Diamond Coating on Surface Modified Non-Carbide Forming Substrate Using Hot Filament CVD. <i>Materials Express</i> , 2012, 2, 115-120.	0.5	10
33	Integration of perovskite PZT thin films on diamond substrate without buffer layer. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 202001.	2.8	22
34	A comparative study on wear behavior of TiN and diamond coated WC-Co substrates against hypereutectic Al-Si alloys. <i>Applied Surface Science</i> , 2012, 261, 520-527.	6.1	17