

# Praveena Manimunda

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

950  
citations

623734

14  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically thin gallium layers from solid-melt exfoliation. <i>Science Advances</i> , 2018, 4, e1701373.	10.3	157
2	Shear-Induced Structural Changes and Origin of Ultralow Friction of Hydrogenated Diamond-like Carbon (DLC) in Dry Environment. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16704-16714.	8.0	127
3	A natural impact-resistant bicontinuous composite nanoparticle coating. <i>Nature Materials</i> , 2020, 19, 1236-1243.	27.5	115
4	Surface phosphonation enhances hydroxyapatite coating adhesion on polyetheretherketone and its osseointegration potential. <i>Acta Biomaterialia</i> , 2017, 47, 149-158.	8.3	112
5	Cold spray deposition of a Ni-WC composite coating and its dry sliding wear behavior. <i>Surface and Coatings Technology</i> , 2016, 308, 424-434.	4.8	62
6	Metal Immiscibility Route to Synthesis of Ultrathin Carbides, Borides, and Nitrides. <i>Advanced Materials</i> , 2017, 29, 1700364.	21.0	61
7	Structural Phase Transformation in Strained Monolayer MoWSe <sub>2</sub> Alloy. <i>ACS Nano</i> , 2018, 12, 3468-3476.	14.6	57
8	Deformation Mechanisms of Vertically Stacked WS <sub>2</sub> /MoS <sub>2</sub> Heterostructures: The Role of Interfaces. <i>ACS Nano</i> , 2018, 12, 4036-4044.	14.6	54
9	Structural analysis of elastically bent organic crystals using <i>in situ</i> indentation and micro-Raman spectroscopy. <i>Chemical Communications</i> , 2017, 53, 13035-13038.	4.1	41
10	Total internal reflection (TIR) Raman tribometer: a new tool for <i>in situ</i> study of friction-induced material transfer. <i>RSC Advances</i> , 2013, 3, 5401.	3.6	22
11	Tribological behavior of TiN and Ti (Si,C)N coatings on cold sprayed Ti substrates. <i>Surface and Coatings Technology</i> , 2016, 291, 264-275.	4.8	22
12	Nanoscale deformation and friction characteristics of atomically thin WSe <sub>2</sub> and heterostructure using nanoscratch and Raman spectroscopy. <i>2D Materials</i> , 2017, 4, 045005.	4.4	20
13	Effect of crystallographic orientation on the tribological behavior of electrodeposited Zn coatings. <i>RSC Advances</i> , 2016, 6, 17360-17372.	3.6	19
14	Mechanical Anisotropy and Pressure Induced Structural Changes in Piroxicam Crystals Probed by <i>In Situ</i> Indentation and Raman Spectroscopy. <i>Jom</i> , 2017, 69, 57-63.	1.9	16
15	Total internal reflection Raman spectroscopy of poly(alpha-olefin) oils in a lubricated contact. <i>RSC Advances</i> , 2014, 4, 22205-22213.	3.6	14
16	Lattice misorientation evolution and grain refinement in Al-Si alloys under high-strain shear deformation. <i>Materialia</i> , 2021, 18, 101146.	2.7	14
17	Probing stress induced phase transformation in aspirin polymorphs using Raman spectroscopy enabled nanoindentation. <i>Chemical Communications</i> , 2019, 55, 9200-9203.	4.1	13
18	Strain-Induced Structural Deformation Study of 2D Mo <sub>x</sub> W <sub>(1-x)</sub> S <sub>2</sub> . <i>Advanced Materials Interfaces</i> , 2019, 6, 1801262.	3.7	13

#	ARTICLE	IF	CITATIONS
19	Friction between a Steel Ball and a Steel Flat Lubricated by MoS <sub>2</sub> Particles Suspended in Hexadecane at 150 °C. Industrial & Engineering Chemistry Research, 2012, , 120917103743003.	3.7	6
20	Nano-meter scale plasticity in KBr studied by nanoindenter and force microscopy. Materials Research Society Symposia Proceedings, 2009, 1185, 90.	0.1	3
21	Differences in the Mechanical Properties of Monolayer and Multilayer WSe <sub>2</sub> /MoSe <sub>2</sub> . MRS Advances, 2018, 3, 373-378.	0.9	2
22	Lattice Misorientation Evolution and Grain Refinement in Al-Si Alloys Under High-Strain Shear Deformation. SSRN Electronic Journal, 0, , .	0.4	0