

# Kalyan C Mutyala

## List of Publications by Year in descending order

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14  
papers

459  
citations

840776

11  
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1058476

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14  
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docs citations

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times ranked

380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving superlubricity with 2D transition metal carbides (MXenes) and MXene/graphene coatings. <i>Materials Today Advances</i> , 2021, 9, 100133.	5.2	44
2	Towards developing robust solid lubricant operable in multifarious environments. <i>Scientific Reports</i> , 2020, 10, 15390.	3.3	28
3	Superlubricity in rolling/sliding contacts. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	22
4	Rolling Contact Performance of a Ti-Containing MoS <sub>2</sub> Coating Operating Under Ambient, Vacuum, and Oil-Lubricated Conditions. <i>Coatings</i> , 2019, 9, 752.	2.6	8
5	Iron-Nanoparticle Driven Tribochemistry Leading to Superlubric Sliding Interfaces. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901416.	3.7	41
6	Graphene - MoS <sub>2</sub> ensembles to reduce friction and wear in DLC-Steel contacts. <i>Carbon</i> , 2019, 146, 524-527.	10.3	108
7	Effect of deposition method on tribological performance and corrosion resistance characteristics of Cr <sub>x</sub> N coatings deposited by physical vapor deposition. <i>Thin Solid Films</i> , 2017, 636, 232-239.	1.8	11
8	An atom probe tomography investigation of Ti-MoS <sub>2</sub> and MoS <sub>2</sub> -Sb <sub>2</sub> O <sub>3</sub> -Au films. <i>Journal of Materials Research</i> , 2017, 32, 1710-1717.	2.6	6
9	Effect of deposition method on the RCF performance of Cr x N thin film ball coatings. <i>Surface and Coatings Technology</i> , 2016, 305, 176-183.	4.8	9
10	Effect of Diamond-Like Carbon Coatings on Ball Bearing Performance in Normal, Oil-Starved, and Debris-Damaged Conditions. <i>Tribology Transactions</i> , 2016, 59, 1039-1047.	2.0	18
11	Influence of MoS <sub>2</sub> on the Rolling Contact Performance of Bearing Steels in Boundary Lubrication: A Different Approach. <i>Tribology Letters</i> , 2016, 61, 1.	2.6	29
12	Deposition, characterization, and performance of tribological coatings on spherical rolling elements. <i>Surface and Coatings Technology</i> , 2015, 284, 302-309.	4.8	26
13	Tribological Performance and Coating Characteristics of Sputter-Deposited Ti-Doped MoS <sub>2</sub> in Rolling and Sliding Contact. <i>Tribology Transactions</i> , 2015, 58, 767-777.	2.0	60
14	An investigation of material and tribological properties of Sb <sub>2</sub> O <sub>3</sub> /Au-doped MoS <sub>2</sub> solid lubricant films under sliding and rolling contact in different environments. <i>Surface and Coatings Technology</i> , 2015, 284, 281-289.	4.8	49