

Kalyan C Mutyala

List of Publications by Year in descending order

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papers

459
citations

840776

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14
docs citations

14
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380
citing authors

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