

Zhaoqiang Chen

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Self-lubricating ceramic cutting tool material with the addition of nickel coated CaF ₂ solid lubricant powders. International Journal of Refractory Metals and Hard Materials, 2016, 56, 51-58.	3.8	51
2	An advanced self-lubricating ceramic composite with the addition of core-shell structured h-BN@Ni powders. International Journal of Refractory Metals and Hard Materials, 2018, 72, 276-285.	3.8	37
3	Structure design of Al ₂ O ₃ /TiC/CaF ₂ multicomponent gradient self-lubricating ceramic composite and its tribological behaviors. Ceramics International, 2018, 44, 5550-5563.	4.8	29
4	Synthesis of (h-BN)/SiO ₂ core-shell powder for improved self-lubricating ceramic composites. Ceramics International, 2016, 42, 5504-5511.	4.8	23
5	Lubrication Performance of Graphene as Lubricant Additive in 4-n-pentyl-4'-cyanobiphenyl Liquid Crystal (5CB) for Steel/Steel Contacts. Materials, 2018, 11, 2110.	2.9	21
6	Preparation and mechanical properties of Si ₃ N ₄ nanocomposites reinforced by Si ₃ N ₄ @rGO particles. Journal of the American Ceramic Society, 2019, 102, 6991-7002.	3.8	20
7	Electrostatic self-assembly preparation of reduced graphene oxide-encapsulated alumina nanoparticles with enhanced mechanical properties of alumina nanocomposites. Journal of the European Ceramic Society, 2018, 38, 5122-5133.	5.7	18
8	Preparation of nano-coating powder CaF ₂ @Al(OH) ₃ and its application in Al ₂ O ₃ /Ti(C,N) self-lubricating ceramic tool materials. Ceramics International, 2020, 46, 15949-15957.	4.8	18
9	Tool wear prediction in milling based on a GSA-BP model with a multisensor fusion method. International Journal of Advanced Manufacturing Technology, 2021, 114, 3793-3802.	3.0	18
10	Mechanical properties, microstructure and crack healing ability of Al ₂ O ₃ /TiC/TiB ₂ /h-BN@Al ₂ O ₃ self-lubricating ceramic tool material. Ceramics International, 2021, 47, 14551-14560.	4.8	18
11	Mechanical properties and microstructure of Al ₂ O ₃ /TiC based self-lubricating ceramic tool with CaF ₂ @Al(OH) ₃ . International Journal of Refractory Metals and Hard Materials, 2018, 75, 50-55.	3.8	17
12	Ultralow Friction Between Steel Surfaces Achieved by Lubricating with Liquid Crystal After a Running-in Process with Acetylacetone. Tribology Letters, 2018, 66, 1.	2.6	17
13	Influence of CaF ₂ @Al ₂ O ₃ on the friction and wear properties of Al ₂ O ₃ /Ti(C,N)/CaF ₂ @Al ₂ O ₃ self-lubricating ceramic tool. Materials Chemistry and Physics, 2019, 223, 306-310.	4.0	17
14	Mechanical properties and microstructure of Al ₂ O ₃ /Ti(C,N)/CaF ₂ @Al ₂ O ₃ self-lubricating ceramic tool. International Journal of Refractory Metals and Hard Materials, 2019, 80, 144-150.	3.8	16
15	Synthesis of CaF ₂ Nanoparticles Coated by SiO ₂ for Improved Al ₂ O ₃ /TiC Self-Lubricating Ceramic Composites. Nanomaterials, 2019, 9, 1522.	4.1	15
16	Crack healing and strength recovery of Al ₂ O ₃ /TiC/TiB ₂ ceramic tool materials. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105167.	3.8	15
17	Mechanical properties and microstructure of Al ₂ O ₃ /TiB ₂ and Al ₂ O ₃ /TiB ₂ /GNPs ceramic tool materials prepared by spark plasma sintering. Ceramics International, 2021, 47, 11748-11755.	4.8	15
18	Effect of graphene nanoplatelets on the mechanical properties and cutting performance of alumina nanocomposite ceramic tools prepared using the SPS-HF dual sintering method. Ceramics International, 2022, 48, 19240-19249.	4.8	13

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19	Investigation of Al ₂ O ₃ /TiC ceramic cutting tool materials with the addition of SiC-coated h-BN: preparation, mechanical properties, microstructure and wear resistance. International Journal of Materials Research, 2016, 107, 735-740.	0.3	10
20	Friction and wear behavior of Ti(C,N) self-lubricating cermet materials with multilayer core-shell microstructure. International Journal of Refractory Metals and Hard Materials, 2021, 100, 105629.	3.8	10
21	Surface anchoring behavior of 5CB liquid crystal confined between iron surfaces: A molecular dynamics study. Applied Surface Science, 2020, 508, 145284.	6.1	9
22	Cohesive Element Model for Fracture Behavior Analysis of Al ₂ O ₃ /Graphene Composite Ceramic Tool Material. Crystals, 2019, 9, 669.	2.2	8
23	A new preparation method of CaF ₂ @SiO ₂ nano solid lubricant and analysis of its coating mechanism. Journal of Alloys and Compounds, 2021, 883, 160795.	5.5	8
24	Structural design and toughening mechanism of laminated graphene ceramic tool materials. Ceramics International, 2021, 47, 32264-32275.	4.8	8
25	Effect of Running-In Induced Groove-Structured Wear and Fe(acac) ₃ on Ultralow Friction When Lubricating with 5CB Liquid Crystal. Tribology Letters, 2019, 67, 1.	2.6	7
26	Preparation of Al ₂ O ₃ /Ti(C,N)/ZrO ₂ /CaF ₂ @Al(OH) ₃ Ceramic Tools and Cutting Performance in Turning. Materials, 2019, 12, 3820.	2.9	7
27	An advanced self-lubricating ceramic composite with the addition of core-shell structured CaF ₂ @Al ₂ O ₃ powders. International Journal of Applied Ceramic Technology, 2019, 16, 753-760.	2.1	7
28	Self-lubricating ceramic tool materials synergistically toughened by nano-coated particles and silicon carbide whiskers. International Journal of Refractory Metals and Hard Materials, 2021, 98, 105560.	3.8	7
29	Al ₂ O ₃ /WB ₂ composite ceramic tool material reinforced with graphene oxide self-assembly coated silicon nitride. International Journal of Refractory Metals and Hard Materials, 2019, 81, 173-182.	3.8	6
30	Influence of CaF ₂ @Al ₂ O ₃ on Cutting Performance and Wear Mechanism of Al ₂ O ₃ /Ti(C,N)/CaF ₂ @Al ₂ O ₃ Self-Lubricating Ceramic Tools in Turning. Materials, 2020, 13, 2922.	2.9	6
31	Mechanical Properties and Microstructures of Al ₂ O ₃ /TiC/TiB ₂ Ceramic Tool Material. Crystals, 2021, 11, 637.	2.2	5
32	Friction and Wear Behavior of 1-Octyl-3-methylimidazolium Lactate Ionic Liquid as Lubricant in Steel-Steel Contacts. Tribology Transactions, 2019, 62, 955-961.	2.0	4
33	Effect of the Characteristic Size and Content of Graphene on the Crack Propagation Path of Alumina/Graphene Composite Ceramics. Materials, 2021, 14, 611.	2.9	4
34	Investigation of Al ₂ O ₃ /TiB ₂ ceramic cutting tool materials with the addition of core-shell structured Ni ₃ B coated CaF ₂ . International Journal of Materials Research, 2019, 110, 788-792.	0.3	4
35	Synthesis and Simulation of CaF ₂ @Al(OH) ₃ Core-Shell Coated Solid Lubricant Composite Powder. Crystals, 2019, 9, 578.	2.2	1
36	Preparation and Performance of Al ₂ O ₃ /Ti(C,N)-Added ZrO ₂ Whisker and NanoCoated CaF ₂ @Al(OH) ₃ Powder. Applied Sciences (Switzerland), 2020, 10, 4435.	2.5	1

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37	Modelling and Prediction of Cutting Temperature in the Machining of H13 Hard Steel of Transient Heat Conduction. <i>Materials</i> , 2021, 14, 3176.	2.9	1
38	Cutting performance and wear resistance of $\text{Al}_2\text{O}_3/\text{TiC}/\text{CaF}_2/\text{Al}_2\text{O}_3/\text{Si}_3\text{N}_4$ ceramic tools in dry machining of hardened steel. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 697-706.	1.1	1
39	Effect of $\text{h-BN}/\text{Al}_2\text{O}_3$ on the microstructure and mechanical properties of $\text{Si}_3\text{N}_4/\text{TiC}$ ceramic composite. <i>International Journal of Materials Research</i> , 2018, 109, 677-680.	0.3	0
40	Parametric Design of Small Rail Stacker Based on Dimension Drive. , 2019, , .		0