Zhaoqiang Chen

List of Publications by Year
in descending order

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40	492	623734	752698
papers	citations	14 h-index	20 g-index

41	41	41	274
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Mechanical properties and microstructure of Al2O3/TiB2 and Al2O3/TiB2/GNPs ceramic tool materials prepared by spark plasma sintering. Ceramics International, 2021, 47, 11748-11755.	4.8	15
4	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
5	Mechanical properties, microstructure and crack healing ability of Al2O3/TiC/TiB2/h-BN@Al2O3 self-lubricating ceramic tool material. Ceramics International, 2021, 47, 14551-14560.	4.8	18
6	Modelling and Prediction of Cutting Temperature in the Machining of H13 Hard Steel of Transient Heat Conduction. Materials, 2021, 14, 3176.	2.9	1
7	Mechanical Properties and Microstructures of Al2O3/TiC/TiB2 Ceramic Tool Material. Crystals, 2021, 11, 637.	2.2	5
8	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
9	A new preparation method of CaF2@SiO2 nano solid lubricant and analysis of its coating mechanism. Journal of Alloys and Compounds, 2021, 883, 160795.	5.5	8
10	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
11	Structural design and toughening mechanism of laminated graphene ceramic tool materials. Ceramics International, 2021, 47, 32264-32275.	4.8	8
12	Cutting performance and wear resistance of Al₂O₃/TiC/CaF₂@Al₂O<sub>3</su ceramic tools in dry machining of hardened steel. Journal of the Ceramic Society of Japan, 2021, 129, 697-706.	1.1	1
13	Surface anchoring behavior of 5CB liquid crystal confined between iron surfaces: A molecular dynamics study. Applied Surface Science, 2020, 508, 145284.	6.1	9
14	Crack healing and strength recovery of Al2O3/TiC/TiB2 ceramic tool materials. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105167.	3.8	15
15	Preparation and Performance of Al2O3/Ti(C,N)-Added ZrO2 Whisker and NanoCoated CaF2@Al(OH)3 Powder. Applied Sciences (Switzerland), 2020, 10, 4435.	2.5	1
16	Influence of CaF2@Al2O3 on Cutting Performance and Wear Mechanism of Al2O3/Ti(C,N)/CaF2@Al2O3 Self-Lubricating Ceramic Tools in Turning. Materials, 2020, 13, 2922.	2.9	6
17	Preparation of nano - coating powder CaF2@Al(OH)3 and its application in Al2O3/Ti(C,N) self-lubricating ceramic tool materials. Ceramics International, 2020, 46, 15949-15957.	4.8	18
18	Synthesis of CaF2 Nanoparticles Coated by SiO2 for Improved Al2O3/TiC Self-Lubricating Ceramic Composites. Nanomaterials, 2019, 9, 1522.	4.1	15

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19	Preparation and mechanical properties of Si₃N₄ nanocomposites reinforced by Si₃N₄@rGO particles. Journal of the American Ceramic Society, 2019, 102, 6991-7002.	3.8	20
20	Friction and Wear Behavior of 1-Octyl-3-methylimidazolium Lactate Ionic Liquid as Lubricant in Steelâ€“Steel Contacts. Tribology Transactions, 2019, 62, 955-961.	2.0	4
21	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
22	Al2O3/WB2 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
23	Parametric Design of Small Rail Stacker Based on Dimension Drive. , 2019, , .		0
24	Cohesive Element Model for Fracture Behavior Analysis of Al2O3/Graphene Composite Ceramic Tool Material. Crystals, 2019, 9, 669.	2.2	8
25	Preparation of Al2O3/Ti(C,N)/ZrO2/CaF2@Al(OH)3 Ceramic Tools and Cutting Performance in Turning. Materials, 2019, 12, 3820.	2.9	7
26	Synthesis and Simulation of CaF2@Al(OH)3 Core-Shell Coated Solid Lubricant Composite Powder. Crystals, 2019, 9, 578.	2.2	1
27	An advanced selfâ€lubricating ceramic composite with the addition of coreâ€shell structured CaF 2 @Al 2 O 3 powders. International Journal of Applied Ceramic Technology, 2019, 16, 753-760.	2.1	7
28	Mechanical properties and microstructure of Al2O3/Ti(C,N)/CaF2@Al2O3 self-lubricating ceramic tool. International Journal of Refractory Metals and Hard Materials, 2019, 80, 144-150.	3.8	16
29	Influence of CaF2@Al2O3 on the friction and wear properties of Al2O3/Ti(C,N)/CaF2@Al2O3 self-lubricating ceramic tool. Materials Chemistry and Physics, 2019, 223, 306-310.	4.0	17
30	Investigation of Al2O3/TiB2 ceramic cutting tool materials with the addition of coreâ€“shell structured Niâ€“B coated CaF2. International Journal of Materials Research, 2019, 110, 788-792.	0.3	4
31	Structure design of Al2O3/TiC/CaF2 multicomponent gradient self-lubricating ceramic composite and its tribological behaviors. Ceramics International, 2018, 44, 5550-5563.	4.8	29
32	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
33	Mechanical properties and microstructure of Al2O3/TiC based self-lubricating ceramic tool with CaF2@Al (HO)3. International Journal of Refractory Metals and Hard Materials, 2018, 75, 50-55.	3.8	17
34	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
35	Effect of h-BN@Al₂O₃ on the microstructure and mechanical properties of Si₃N₄/TiC ceramic composite. International Journal of Materials Research, 2018, 109, 677-680.	0.3	0
36	Lubrication Performance of Graphene as Lubricant Additive in 4-n-pentyl-4â€²-cyanobiphyl Liquid Crystal (5CB) for Steel/Steel Contacts. Materials, 2018, 11, 2110.	2.9	21

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37	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
38	Investigation of Al2O3/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
39	Self-lubricating ceramic cutting tool material with the addition of nickel coated CaF2 solid lubricant powders. International Journal of Refractory Metals and Hard Materials, 2016, 56, 51-58.	3.8	51
40	Synthesis of (h-BN)/SiO2 coreâ€“shell powder for improved self-lubricating ceramic composites. Ceramics International, 2016, 42, 5504-5511.	4.8	23