

# Guangyu He

## List of Publications by Year in descending order

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19  
papers

305  
citations

759233

12  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage evolution and mechanism of TiN/Ti multilayer coatings in sand erosion condition. <i>Surface and Coatings Technology</i> , 2018, 353, 210-220.	4.8	47
2	The strengthening mechanism of a nickel-based alloy after laser shock processing at high temperatures. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 055010.	6.1	45
3	Ta@Ag Porous Array with High Stability and Biocompatibility for SERS Sensing of Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20138-20144.	8.0	27
4	Performance and damage mechanism of TiN/ZrN nano-multilayer coatings based on different erosion angles. <i>Applied Surface Science</i> , 2020, 513, 145457.	6.1	25
5	Erosion Resistance and Damage Mechanism of TiN/ZrN Nanoscale Multilayer Coating. <i>Coatings</i> , 2019, 9, 64.	2.6	21
6	Corrosion Damage Mechanism of TiN/ZrN Nanoscale Multilayer Anti-Erosion Coating. <i>Coatings</i> , 2018, 8, 400.	2.6	19
7	Damage evolution behavior of TiN/Ti multilayer coatings under high-speed impact conditions. <i>Surface and Coatings Technology</i> , 2021, 426, 127807.	4.8	18
8	Analysis of the mechanical properties of TiN/Ti multilayer coatings using indentation under a broad load range. <i>Ceramics International</i> , 2021, 47, 10796-10808.	4.8	16
9	Fatigue and Mechanical Behavior of Ti-6Al-4V Alloy with CrN and TiN Coating Deposited by Magnetic Filtered Cathodic Vacuum Arc Process. <i>Coatings</i> , 2019, 9, 689.	2.6	13
10	Key Problems Affecting the Anti-Erosion Coating Performance of Aero-Engine Compressor: A Review. <i>Coatings</i> , 2019, 9, 821.	2.6	13
11	Solid particle erosion behavior and failure mechanism of TiZrN coatings for Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2021, 426, 127701.	4.8	13
12	Anisotropic deformation and fracture mechanisms of physical vapor deposited TiN/ZrN multilayers. <i>Ceramics International</i> , 2020, 46, 15502-15509.	4.8	12
13	Combustion Mechanism of Alloying Elements Cr in Ti-Cr-V Alloys. <i>Materials</i> , 2019, 12, 3206.	2.9	9
14	Combustion of Metals in Oxygen-Enriched Atmospheres. <i>Metals</i> , 2020, 10, 128.	2.3	9
15	Structural toughness and interfacial effects of multilayer TiN erosion-resistant coatings based on high strain rate repeated impact loads. <i>Ceramics International</i> , 2021, 47, 27660-27667.	4.8	6
16	First-principle calculations of CrN(200)/Ni(111) interface: Atomic structure, stability, and electronic properties. <i>Surface and Interface Analysis</i> , 2021, 53, 167-175.	1.8	5
17	Crack resistance enhancement of gradient bias TiN/Ti multilayer coating by Ti sputtering. <i>Surface Engineering</i> , 2021, 37, 1457-1466.	2.2	4
18	Improvement of anti-erosion performance of TiN coatings through using a filtration cathode vacuum arc deposition method. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3153-3164.	3.8	2

#	ARTICLE	IF	CITATIONS
19	Research on the preparation and performance of anti-dust self-cleaning film on Mars dusty environment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 013408.	2.1	1