

Deen Sun

List of Publications by Year in descending order

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32
papers

1,226
citations

516561

16
h-index

477173

29
g-index

33
all docs

33
docs citations

33
times ranked

1265
citing authors

#	ARTICLE	IF	CITATIONS
1	Toughness measurement of thin films: a critical review. <i>Surface and Coatings Technology</i> , 2005, 198, 74-84.	2.2	322
2	Review on current research of materials, fabrication and application for bipolar plate in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29832-29847.	3.8	243
3	Hard yet Tough Nanocomposite Coatings – Present Status and Future Trends. <i>Plasma Processes and Polymers</i> , 2007, 4, 219-228.	1.6	116
4	Bias effect on microstructure and mechanical properties of magnetron sputtered nanocrystalline titanium carbide thin films. <i>Thin Solid Films</i> , 2008, 516, 5419-5423.	0.8	91
5	Fabrication and characterization of an actively protective Mg-Al LDHs/Al ₂ O ₃ composite coating on magnesium alloy AZ31. <i>Applied Surface Science</i> , 2019, 487, 558-568.	3.1	59
6	Relationship between bonding structure and mechanical properties of amorphous carbon containing silicon. <i>Diamond and Related Materials</i> , 2007, 16, 1628-1635.	1.8	56
7	Study on conductivity and corrosion resistance of N-doped and Cr/N co-doped DLC films on bipolar plates for PEMFC. <i>Diamond and Related Materials</i> , 2020, 110, 108156.	1.8	34
8	Toward hard yet tough CrAlSiN coatings via compositional grading. <i>Surface and Coatings Technology</i> , 2013, 231, 346-352.	2.2	30
9	Microstructure evolution and corrosion resistance of multi interfaces Al-TiAlN nanocomposite films on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2019, 357, 83-92.	2.2	28
10	Enhanced protective coatings on Ti-10V-2Fe-3Al alloy through anodizing and post-sealing with layered double hydroxides. <i>Journal of Materials Science and Technology</i> , 2020, 37, 104-113.	5.6	25
11	Towards hard yet self-lubricious CrAlSiN coatings. <i>Journal of Alloys and Compounds</i> , 2015, 618, 132-138.	2.8	23
12	Effect of temperature and bias voltage on electrical and electrochemical properties of diamond-like carbon films deposited with HiPIMS. <i>Surface and Coatings Technology</i> , 2019, 358, 987-993.	2.2	23
13	Interfacial study of magnesium-containing fluoridated hydroxyapatite coatings. <i>Thin Solid Films</i> , 2011, 519, 4629-4633.	0.8	19
14	Interdigitated CuS/TiO ₂ Nanotube Bulk Heterojunctions Achieved via Ion Exchange. <i>Electrochimica Acta</i> , 2016, 199, 180-186.	2.6	17
15	Effect of Electrolyte Pretreatment on the Formation of TiO ₂ Nanotubes: An Ignored yet Non-negligible Factor. <i>ChemElectroChem</i> , 2018, 5, 1006-1012.	1.7	17
16	Microstructural effect on the tribo-corrosion behaviors of magnetron sputtered CrSiN coatings. <i>Wear</i> , 2018, 416-417, 44-53.	1.5	17
17	Effect of bias on structure mechanical properties and corrosion resistance of TiN _x films prepared by ion source assisted magnetron sputtering. <i>Thin Solid Films</i> , 2019, 676, 60-67.	0.8	16
18	Effect of fluorine incorporation on long-term stability of magnesium-containing hydroxyapatite coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1633-1638.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Enhanced protective nanoparticle-modified MgAl-LDHs coatings on titanium alloy. Surface and Coatings Technology, 2020, 404, 126449.	2.2	12
20	MAGNETRON SPUTTERED HARD AND YET TOUGH NANOCOMPOSITE COATINGS WITH CASE STUDIES: NANOCRYSTALLINE TiN EMBEDDED IN AMORPHOUS SiN _x . , 2007, , 1-110.		8
21	Effects of Si content on Tribo-corrosion behavior of Cr _{1-x} Si _x N coatings prepared via magnetron sputtering. Surface and Coatings Technology, 2018, 356, 11-18.	2.2	8
22	Corrosion inhibition behaviors of ZrN _x thin films with varied N vacancy concentration. Vacuum, 2019, 162, 28-38.	1.6	7
23	Tribological properties and corrosion resistance of CrSiN coatings prepared via hybrid HiPIMS and DCMS. Materials Research Express, 2019, 6, 086432.	0.8	7
24	Transfer film growth of continuous carbon fiber reinforced thermoplastic poly(ether ether ketone) facilitated by surface texture during dry sliding. Journal of Materials Science, 2022, 57, 383-397.	1.7	7
25	Hard Yet Tough Ceramic Coating: Not a Dream Any More—via Nanostructured Multilayering. Nanoscience and Nanotechnology Letters, 2012, 4, 375-377.	0.4	6
26	Effect of the varied nitrogen vacancy concentration on mechanical and electrical properties of ZrN _x thin films. Thin Solid Films, 2019, 683, 57-66.	0.8	5
27	Activity and stability of CoM _x O _y /Co ₃ O ₄ (M = Mo, W, V) nano-arrays synthesized by self-templated method for water oxidization. Chemical Engineering Journal, 2021, 426, 130063.	6.6	5
28	Suppression of peeling failure in MoSi ₂ film by doping of Si. Surface and Coatings Technology, 2022, 442, 128016.	2.2	5
29	Three-dimensional display on computer screen free from accommodation-convergence conflict. Optics Communications, 2017, 390, 36-40.	1.0	3
30	MAGNETRON SPUTTERED HARD AND YET TOUGH NANOCOMPOSITE COATINGS WITH CASE STUDIES: NANOCRYSTALLINE TiC EMBEDDED IN AMORPHOUS CARBON. , 2007, , 111-165.		2
31	Effect of Al Content on Microstructure and Mechanical Property of Nanocomposite TiAlSiN Thin Films. Journal of Nanoscience and Nanotechnology, 2019, 19, 199-205.	0.9	2
32	Microstructure and Mechanical Properties of Cu-Containing Amorphous Carbon Nanocomposite Thin Films by a Hybrid Deposition Technique. Nanoscience and Nanotechnology Letters, 2017, 9, 438-445.	0.4	0