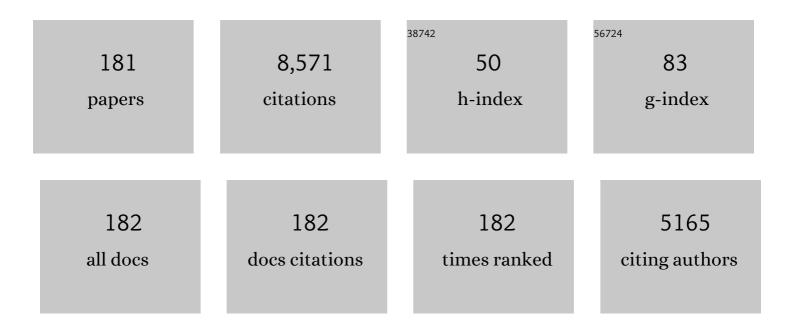
List of Publications by Year in descending order

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C. SHINDADADAIAN

#	Article	IF	CITATIONS
1	Mechanisms underlying the formation of thick alumina coatings through the MAO coating technology. Surface and Coatings Technology, 2003, 167, 269-277.	4.8	430
2	Correlation between the characteristics of the mechanically mixed layer and wear behaviour of aluminium, Al-7075 alloy and Al-MMCs. Wear, 2000, 245, 22-38.	3.1	310
3	The tribological performance of ultra-hard ceramic composite coatings obtained through microarc oxidation. Surface and Coatings Technology, 2003, 163-164, 484-490.	4.8	208
4	FeB/FeB phase transformation during SPS pack-boriding: Boride layer growth kinetics. Acta Materialia, 2005, 53, 2361-2368.	7.9	204
5	A New Electrochemical Approach for the Synthesis of Copper-Graphene Nanocomposite Foils with High Hardness. Scientific Reports, 2014, 4, 4049.	3.3	204
6	The effect of participate reinforcement on the sliding wear behavior of aluminum matrix composites. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1992, 23, 2833-2847.	1.4	202
7	The sliding wear behaviour of Alî—,SiC particulate composites—I. Macrobehaviour. Acta Materialia, 1996, 44, 451-460.	7.9	200
8	The sliding wear behaviour of Alî—,SiC particulate composites—II. The characterization of subsurface deformation and correlation with wear behaviour. Acta Materialia, 1996, 44, 461-473.	7.9	193
9	Solid particle erosion behaviour of metallic materials at room and elevated temperatures. Tribology International, 1997, 30, 339-359.	5.9	188
10	Influence of the pack thickness of the boronizing mixture on the boriding of steel. Surface and Coatings Technology, 2002, 149, 21-26.	4.8	183
11	A new model for the erosion of metals at normal incidence. Wear, 1983, 84, 237-258.	3.1	177
12	Preparation and Characterization of Ni-Doped Materials for Photocurrent and Photocatalytic Applications. Scientific World Journal, The, 2012, 2012, 1-16.	2.1	171
13	Geometrical features and metallurgical characteristics of Nd:YAG laser drilled holes in thick IN718 and Ti–6Al–4V sheets. Journal of Materials Processing Technology, 2002, 127, 83-95.	6.3	162
14	Pulsed electrodeposition and mechanical properties of Ni-W/SiC nano-composite coatings. Materials and Design, 2016, 112, 140-150.	7.0	159
15	Influence of process parameters during pulsed Nd:YAG laser cutting of nickel-base superalloys. Journal of Materials Processing Technology, 2005, 170, 229-239.	6.3	146
16	The solid particle erosion of polymer matrix composites. Wear, 1994, 171, 149-161.	3.1	145
17	A comprehensive model for the solid particle erosion of ductile materials. Wear, 1991, 149, 111-127.	3.1	144
18	A comparative study of tribological behavior of microarc oxidation and hard-anodized coatings. Wear, 2006, 261, 1095-1101.	3.1	121

#	Article	IF	CITATIONS
19	Erosion efficiency-a new parameter to characterize the dominant erosion micromechanism. Wear, 1990, 140, 369-381.	3.1	119
20	Effect of heat treatment on properties of cold sprayed nanocrystalline copper alumina coatings. Acta Materialia, 2007, 55, 4741-4751.	7.9	116
21	Influence of mode of electrodeposition, current density and saccharin on the microstructure and hardness of electrodeposited nanocrystalline nickel coatings. Surface and Coatings Technology, 2016, 291, 130-140.	4.8	112
22	Processing–structure–property correlation and decarburization phenomenon in detonation sprayed WC–12Co coatings. Acta Materialia, 2008, 56, 5012-5026.	7.9	111
23	Effect of Process Parameters and Heat Treatments on Properties of Cold Sprayed Copper Coatings. Journal of Thermal Spray Technology, 2007, 16, 425-434.	3.1	110
24	Preparation and characterization of Co-doped TiO2 materials for solar light induced current and photocatalytic applications. Materials Chemistry and Physics, 2012, 135, 220-234.	4.0	99
25	The high speed sliding wear behaviour of boronized medium carbon steel. Surface and Coatings Technology, 1995, 73, 177-184.	4.8	98
26	The Corrosion Behavior of Cold Sprayed Zinc Coatings on Mild Steel Substrate. Journal of Thermal Spray Technology, 2013, 22, 463-470.	3.1	83
27	Sliding wear behavior of electrodeposited Ni–W alloy and hard chrome coatings. Wear, 2015, 342-343, 340-348.	3.1	83
28	A dynamic indentation technique for the characterization of the high strain rate plastic flow behaviour of ductile metals and alloys. Journal of the Mechanics and Physics of Solids, 1991, 39, 243-271.	4.8	80
29	The influence of plate hardness on the ballistic penetration of thick steel plates. International Journal of Impact Engineering, 1995, 16, 293-320.	5.0	78
30	Effect of micro arc oxidation treatment on localized corrosion behaviour of AA7075 aluminum alloy in 3.5% NaCl solution. Transactions of Nonferrous Metals Society of China, 2012, 22, 700-710.	4.2	72
31	A statistical approach to determine process parameter impact in Nd:YAG laser drilling of IN718 and Ti-6Al-4V sheets. Optics and Lasers in Engineering, 2005, 43, 163-182.	3.8	70
32	The influence of heat treatment on the microstructural, mechanical and corrosion behaviour of cold sprayed SS 316L coatings. Journal of Materials Science, 2009, 44, 2320-2326.	3.7	66
33	Formation of hard tungsten boride layer by spark plasma sintering boriding. Thin Solid Films, 2005, 478, 232-237.	1.8	65
34	Abrasive wear behavior of detonation sprayed WC–12Co coatings: Influence of decarburization and abrasive characteristics. Wear, 2010, 268, 1387-1399.	3.1	65
35	Influence of microarc oxidation and hard anodizing on plain fatigue and fretting fatigue behaviour of Al–Mg–Si alloy. Surface and Coatings Technology, 2008, 202, 1462-1469.	4.8	64
36	The Erosion of Metals. Annual Review of Materials Research, 1983, 13, 301-318.	5.5	62

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37	In Situ/ex Situ Investigations on the Formation of the Mosaic Solid Electrolyte Interface Layer on Graphite Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 28717-28726.	3.1	62
38	Influence of pulse parameters on the mechanical properties and electrochemical corrosion behavior of electrodeposited Ni-W alloy coatings with high tungsten content. Corrosion Science, 2020, 165, 108409.	6.6	60
39	Influence of processing route on microstructure and mechanical properties of MgAl2O4 spinel. Ceramics International, 2010, 36, 473-482.	4.8	58
40	On the constraint factor associated with the indentation of work-hardening materials with a spherical ball. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 2375-2384.	1.4	57
41	Influence of process variables on the quality of detonation gun sprayed alumina coatings. Surface and Coatings Technology, 2000, 123, 44-54.	4.8	57
42	Influence of heat treatment on microstructure and mechanical properties of pulse electrodeposited Ni-W alloy coatings. Surface and Coatings Technology, 2017, 319, 403-414.	4.8	57
43	The influence of erodent hardness on the erosion behavior of detonation sprayed WC-12Co coatings. Wear, 2011, 270, 903-913.	3.1	56
44	The influence of process parameters and heat treatment on the properties of cold sprayed silver coatings. Surface and Coatings Technology, 2011, 205, 4798-4807.	4.8	55
45	Influence of molybdenum on the mechanical properties, electrochemical corrosion and wear behavior of electrodeposited Ni-Mo alloy. Surface and Coatings Technology, 2019, 370, 298-310.	4.8	55
46	Microstructural, phase evolution and corrosion properties of silicon carbide reinforced pulse electrodeposited nickel–tungsten composite coatings. Applied Surface Science, 2016, 364, 264-272.	6.1	54
47	The Monkman-Grant relationship. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 112, 205-214.	5.6	53
48	The Influence of Powder Particle Velocity and Microstructure on the Properties of Cold Sprayed Copper Coatings. Journal of Thermal Spray Technology, 2011, 20, 1009-1021.	3.1	53
49	Relative hardness and corrosion behavior of micro arc oxidation coatings deposited on binary and ternary magnesium alloys. Materials & Design, 2015, 77, 6-14.	5.1	52
50	The depth of plastic deformation beneath eroded surfaces: The influence of impact angle and velocity, particle shape and material properties. Wear, 1991, 149, 129-153.	3.1	51
51	Influence of Electrolyte Chemistry on Morphology and Corrosion Resistance of Micro Arc Oxidation Coatings Deposited on Magnesium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3499-3508.	2.2	51
52	Sliding wear behavior of nanocrystalline nickel coatings: Influence of grain size. Wear, 2012, 296, 536-546.	3.1	50
53	Boriding of mild steel using the spark plasma sintering (SPS) technique. Surface and Coatings Technology, 2002, 157, 226-230.	4.8	49
54	Kinetics and Properties of Micro Arc Oxidation Coatings Deposited on Commercial Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 370-378.	2.2	49

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55	Tribological Behavior of Pulsed Electrodeposited Ni-W/SiC Nanocomposites. Journal of Materials Engineering and Performance, 2018, 27, 5236-5245.	2.5	49
56	The nature of the elastic rebound of a hard ball impacting on ductile, metallic target materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 124, 133-140.	5.6	46
57	The energy absorbed during the oblique impact of a hard ball against ductile target materials. International Journal of Impact Engineering, 1990, 9, 343-358.	5.0	45
58	The oblique impact of a hard ball against ductile, semi-infinite target materials—experiment and analysis. International Journal of Impact Engineering, 1987, 6, 3-22.	5.0	44
59	An analysis of the erosion-oxidation interaction mechanisms. Wear, 1991, 145, 251-282.	3.1	44
60	A Comparative Study of Tribological Behavior of Plasma and D-Gun Sprayed Coatings under Different Wear Modes. Journal of Materials Engineering and Performance, 1998, 7, 343-351.	2.5	44
61	Evaluation of Parameters for Assessment of Inter-Splat Bond Strength in Cold-Sprayed Coatings. Journal of Thermal Spray Technology, 2010, 19, 1255-1266.	3.1	44
62	Influence of Li-doping on structural characteristics and photocatalytic activity of ZnO nano-powder formed in a novel solution pyro-hydrolysis route. Applied Surface Science, 2012, 259, 524-537.	6.1	44
63	The Elastic Modulus of Cold Spray Coatings: Influence of Inter-splat Boundary Cracking. Journal of Thermal Spray Technology, 2013, 22, 1348-1357.	3.1	44
64	The solid particle erosion of metallic materials: The rationalization of the influence of material variables. Wear, 1995, 186-187, 129-144.	3.1	43
65	The localization of plastic flow under dynamic indentation conditions: I. Experimental results. Acta Materialia, 2006, 54, 565-575.	7.9	43
66	Controllable Crystallographic Texture in Copper Foils Exhibiting Enhanced Mechanical and Electrical Properties by Pulse Reverse Electrodeposition. Crystal Growth and Design, 2015, 15, 4448-4458.	3.0	42
67	The hardness-flow stress correlation in metallic materials. Bulletin of Materials Science, 1994, 17, 747-770.	1.7	41
68	The influence of phase gradient within the micro arc oxidation (MAO) coatings on mechanical and tribological behaviors. Surface and Coatings Technology, 2015, 269, 54-63.	4.8	41
69	Room temperature erosion behaviour of 304, 316 and 410 stainless steels. Wear, 1991, 145, 77-100.	3.1	40
70	An analysis of the localization of deformation and weight loss during single-particle normal impact. Wear, 1983, 84, 217-235.	3.1	39
71	The tribological behaviour of detonation sprayed coatings: the importance of coating process parameters. Wear, 2005, 258, 377-391.	3.1	38
72	Effect of Micro Arc Oxidation Coatings on Corrosion Resistance of 6061-Al Alloy. Journal of Materials Engineering and Performance, 2008, 17, 708-713.	2.5	38

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73	Erosion behaviour of ductile materials with a spherical non-friable erodent. Wear, 1986, 111, 313-323.	3.1	36
74	Effect of particle shape on the erosion of Cu and its alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 165, 51-63.	5.6	36
75	The use of dynamic impact experiments in the determination of the strain rate sensitivity of metals and alloys. Acta Metallurgica, 1983, 31, 101-109.	2.1	35
76	A comprehensive analysis of the static indentation process. Materials Science and Engineering, 1987, 91, 169-180.	0.1	35
77	Correlation between erosion behaviour and stacking fault energy in copper alloys. Acta Metallurgica, 1984, 32, 1305-1316.	2.1	34
78	Boride layer growth kinetics during boriding of molybdenum by the Spark Plasma Sintering (SPS) technology. Surface and Coatings Technology, 2006, 201, 2849-2853.	4.8	34
79	Aqueous Corrosion Behavior of Micro Arc Oxidation (MAO)-Coated Magnesium Alloys: A Critical Review. Jom, 2014, 66, 1045-1060.	1.9	34
80	A novel colloidal processing route to alumina ceramics. Ceramics International, 2010, 36, 1357-1364.	4.8	33
81	Erosion-oxidation interaction in Ni and Ni-20Cr alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1431-1451.	2.2	32
82	Effect of Feedstock Size and its Distribution on the Properties of Detonation Sprayed Coatings. Journal of Thermal Spray Technology, 2007, 16, 281-290.	3.1	32
83	Microstructure, mechanical properties and machining performance of spark plasma sintered Al2O3–ZrO2–TiCN nanocomposites. Journal of the European Ceramic Society, 2013, 33, 2597-2607.	5.7	32
84	A new model for two-body abrasive wear based on the localization of plastic deformation. Wear, 1987, 117, 1-35.	3.1	30
85	Study of plasma- and detonation gun-sprayed alumina coatings using taguchi experimental design. Journal of Thermal Spray Technology, 2000, 9, 505-512.	3.1	30
86	Performance of plasma sprayed and detonation gun sprayed Cu–Ni–In coatings on Ti–6Al–4V under plain fatigue and fretting fatigue loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 83-92.	5.6	30
87	Experimental investigation of grain boundaries misorientations and nano twinning induced strengthening on addition of silicon carbide in pulse electrodeposited nickel tungsten composite coating. Materials Characterization, 2016, 116, 1-7.	4.4	30
88	Microstructure–mechanical property correlation in oxide dispersion strengthened 18Cr ferritic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 451-459.	5.6	30
89	Influence of prior corrosion on the high cycle fatigue behavior of microarc oxidation coated 6061-T6 Aluminum alloy. International Journal of Fatigue, 2011, 33, 1268-1276.	5.7	29
90	Experimental design and performance analysis of alumina coatings deposited by a detonation spray process. Journal Physics D: Applied Physics, 2001, 34, 131-140.	2.8	28

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91	High-Cycle Fatigue Behavior of Microarc Oxidation Coatings Deposited on a 6061-T6 Al Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 255-265.	2.2	28
92	Influence of Grit Blasting on the Roughness and the Bond Strength of Detonation Sprayed Coating. Journal of Thermal Spray Technology, 2010, 19, 805-815.	3.1	28
93	Compositionally modulated CGDS+MAO duplex coatings for corrosion protection of AZ91 magnesium alloy. Journal of Alloys and Compounds, 2013, 578, 355-361.	5.5	27
94	Influence of pulsed current on the aqueous corrosion resistance of electrodeposited zinc. Surface and Coatings Technology, 2015, 272, 373-379.	4.8	26
95	The penetration of thick steel plates by ogive shaped projectiles—experiment and analysis. International Journal of Impact Engineering, 1992, 12, 373-408.	5.0	25
96	Weibull analysis of hardness distribution in detonation sprayed nano-structured WC-12Co coatings. Surface and Coatings Technology, 2017, 319, 394-402.	4.8	25
97	The influence of microstructure on the erosion behaviour of cast irons. Wear, 1991, 145, 283-296.	3.1	24
98	An analysis of the transition from metal erosion to oxide erosion. Wear, 1998, 217, 312-320.	3.1	24
99	A non-aqueous processing route for phosphate-protection of AlN powder against hydrolysis. Journal of the European Ceramic Society, 2008, 28, 2281-2288.	5.7	24
100	Influence of detonation gun sprayed alumina coating on AA 6063 samples under cyclic loading with and without fretting. Tribology International, 2008, 41, 315-322.	5.9	24
101	Room temperature erosion behaviour of a precipitation hardened stainless steel. Tribology International, 1992, 25, 271-280.	5.9	23
102	Abrasive wear behaviour of detonation sprayed WC–Co coatings on mild steel. Surface Engineering, 1999, 15, 129-136.	2.2	23
103	Highly (111) Textured Copper Foils with High Hardness and High Electrical Conductivity by Pulse Reverse Electrodeposition. Electrochemical and Solid-State Letters, 2010, 13, D40.	2.2	23
104	Process Optimization for Pulse Reverse Electrodeposition of Graphene-Reinforced Copper Nanocomposites. Materials and Manufacturing Processes, 2016, 31, 1439-1446.	4.7	23
105	The effect of laser surface melting on the erosion behaviour of a low alloy steel. Surface and Coatings Technology, 1993, 58, 85-92.	4.8	22
106	The differential effect of the hardness of metallic materials on their erosion and abrasion resistance. Wear, 1993, 162-164, 773-781.	3.1	22
107	Thermal spray coating of aluminum nitride utilizing the detonation spray technique. Journal of Materials Research, 2002, 17, 2514-2523.	2.6	22
108	Coatability and Characterization of Fly Ash Deposited on Mild Steel by Detonation Spraying. Journal of Thermal Spray Technology, 2003, 12, 77-79.	3.1	22

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109	The localization of plastic flow under dynamic indentation conditions: II. Analysis of results. Acta Materialia, 2006, 54, 577-586.	7.9	22
110	Dense β-SiAlONs consolidated by a modified hydrolysis-assisted solidification route. Journal of the European Ceramic Society, 2008, 28, 879-885.	5.7	22
111	Effect of microarc oxidised layer thickness on plain fatigue and fretting fatigue behaviour of Al–Mg–Si alloy. International Journal of Fatigue, 2008, 30, 1259-1266.	5.7	22
112	Influence of the duration of high energy ball milling on the microstructure and mechanical properties of a 9Cr oxide dispersion strengthened ferritic–martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 490-499.	5.6	22
113	An Aqueous Gelcasting Route to Dense β-Si4Al2O2N6–0.5SiO2Ceramics. Journal of the American Ceramic Society, 2008, 91, 1566-1571.	3.8	21
114	Scratch-Induced Deformation Behavior of Cold-Sprayed Aluminum Amorphous/Nanocrystalline Coatings at Multiple Load Scales. Journal of Thermal Spray Technology, 2014, 23, 502-513.	3.1	21
115	The effect of stacking fault energy on the erosion behaviour of copper alloys at oblique impact. Wear, 1985, 103, 133-148.	3.1	20
116	The erosion behavior of 304 stainless steel at elevated temperatures. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 3187-3199.	1.4	20
117	The influence of the coating technique on the high cycle fatigue life of alumina coated Al 6061 alloy. Transactions of the Indian Institute of Metals, 2010, 63, 203-208.	1.5	20
118	Effect of Process Parameters on Microstructure and Hardness of Oxide Dispersion Strengthened 18Cr Ferritic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4197-4209.	2.2	20
119	Effect of detonation gun sprayed Cu–Ni–In coating on plain fatigue and fretting fatigue behaviour of Al–Mg–Si alloy. Surface and Coatings Technology, 2006, 201, 1548-1558.	4.8	19
120	Aqueous slip casting and hydrolysis assisted solidification of MgAl ₂ O ₄ spinel ceramics. Advances in Applied Ceramics, 2011, 110, 63-69.	1.1	19
121	A new model for predicting the grain size of electrodeposited nanocrystalline nickel coatings containing sulphur, phosphorus or boron based on typical systems. Journal of Electroanalytical Chemistry, 2019, 833, 198-204.	3.8	19
122	The strain-rate sensitivitity of flow stress and strain-hardening rate in metallic materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 189, 117-127.	5.6	17
123	The Influence of Erosion-Induced Roughness on the Oxidation Kinetics of Ni and Ni-20Cr Alloys. Oxidation of Metals, 1999, 51, 251-272.	2.1	17
124	Role of stacking fault energy (SFE) on the high strain rate deformation of cold sprayed Cu and Cu–Al alloy coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141242.	5.6	16
125	Strengthening Mechanisms in Mechanically Milled Oxide-Dispersed Iron Powders. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1611-1620.	2.2	15
126	The influence of grain size on the erosion rate of metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1987, 18, 1043-1052.	2.2	14

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127	Engineered surfaces for automotive engine and power train components. Current Opinion in Chemical Engineering, 2016, 11, 1-6.	7.8	14
128	Surface oxygen vacancy engineering and physical protection by in-situ carbon coating process of lithium rich layered oxide. Journal of Power Sources, 2021, 515, 230623.	7.8	14
129	The volume of the crater formed by the impact of a ball against flat target materials— The effect of ball hardness and density. International Journal of Impact Engineering, 1990, 9, 237-246.	5.0	13
130	Parametric influence on cut quality attributes and generation of processing maps for laser cutting. Journal of Laser Applications, 1999, 11, 54-63.	1.7	13
131	Influence of Substrate Material on Plain Fatigue and Fretting Fatigue Behavior of Detonation Gun Sprayed Cu-Ni-In Coating. Journal of Thermal Spray Technology, 2007, 16, 571-579.	3.1	13
132	The tribological behaviour of detonation sprayed TiMo(CN) based cermet coatings. International Journal of Refractory Metals and Hard Materials, 2010, 28, 71-81.	3.8	13
133	Sliding wear of as-deposited and heat-treated nanocrystalline nickel-tungsten alloy coatings. Wear, 2018, 412-413, 136-143.	3.1	13
134	In-situ carbon encapsulation of LiNi1/3Co1/3Mn1/3O2 using pillared ethylene glycol trapped in the metal hydroxide interlayers for enhanced cyclic stability. Electrochimica Acta, 2017, 251, 363-377.	5.2	12
135	Corrosion behaviour of compositionally modulated nanocrystalline Ni–W coatings. Surface Engineering, 2020, 36, 952-959.	2.2	12
136	Influence of Dispersoids on Corrosion Behavior of Oxide Dispersion-Strengthened 18Cr Steels made by High-Energy Milling. Journal of Materials Engineering and Performance, 2016, 25, 577-586.	2.5	11
137	Role of Silicon Carbide in Phase-Evolution and Oxidation Behaviors of Pulse Electrodeposited Nickel-Tungsten Coating. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 501-512.	2.2	11
138	Influence of SiC reinforcement content and heat treatment on the corrosion behavior of pulsed electrodeposited Ni-W alloy metal matrix composite. Materialia, 2022, 22, 101390.	2.7	11
139	The saturation of flow stress in FCC metals. Scripta Metallurgica, 1982, 16, 611-614.	1.2	10
140	An empirical relation for the volume of the crater formed during high velocity oblique impact tests. Wear, 1984, 97, 9-16.	3.1	10
141	Detonation sprayed WC-Co coatings: unique aspects of their structure and mechanical behaviour. Transactions of the Indian Institute of Metals, 2009, 62, 95-103.	1.5	10
142	Influence of Nozzle Throat Cross Section on Microstructure and Properties of Cold Sprayed Coatings. Journal of Thermal Spray Technology, 2019, 28, 1718-1729.	3.1	10
143	Influence of spraying variables on structure and properties of plasma sprayed alumina coatings. Advances in Applied Ceramics, 2000, 99, 241-247.	0.4	9
144	The effect of boron-pack refreshment on the boriding of mild steel by the spark plasma sintering (SPS) process. Surface and Coatings Technology, 2008, 202, 2830-2836.	4.8	9

9

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145	A Comparison of Mechanical and Tribological Behavior of Nanostructured and Conventional WC-12Co Detonation-Sprayed Coatings. Journal of Thermal Spray Technology, 2013, 22, 478-490.	3.1	9
146	The effect of temperature on solid particle erosion. Wear, 1984, 98, 141-149.	3.1	8
147	Fabrication and Photoelectrochemical Characterization of Fe, Co, Ni and Cu-Doped TiO ₂ Thin Films. Materials Science Forum, 2013, 764, 266-283.	0.3	8
148	Solid Particle Erosion of Nanocrystalline Nickel Coatings: Influence of Grain Size and Adiabatic Shear Bands. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 476-489.	2.2	8
149	The solid particle erosion of copper at very low impact velocities. Wear, 1989, 135, 95-108.	3.1	7
150	Influence of solid solution and dispersion strengthening meehanismson room temperature erosion behaviour of niekel. Materials Science and Technology, 1995, 11, 791-797.	1.6	7
151	Tribological behaviour of ion deposited ZrN coatings on mild steel substrate. Surface Engineering, 1997, 13, 219-222.	2.2	7
152	Understanding dynamic indentation behaviour of metallic materials. Materials Science and Technology, 2012, 28, 1101-1107.	1.6	7
153	A combined electron microscopy, atom probe tomography and small angle X-ray scattering study of oxide dispersion strengthened 18Cr ferritic steel. Materials Characterization, 2020, 164, 110306.	4.4	7
154	Novel route to <i>β</i> ‣iAlON–SiO ₂ ceramic composites. Advances in Applied Ceramics, 2011, 110, 87-94.	1.1	6
155	Optimizing mechanical properties of spark plasma sintered ZTA using neural network and genetic algorithm. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 492-496.	5.6	6
156	Thermally activated plastic deformation behavior of nano oxide dispersion strengthened Fe-18Cr steel: Experiments and analysis. Materialia, 2019, 6, 100257.	2.7	6
157	Influence of processing route and SiO ₂ on sintering ability, CTE, and dielectric constant of β-Si ₄ Al ₂ O ₂ N ₆ . Journal of Materials Research, 2008, 23, 2305-2311.	2.6	5
158	Influence of nanoprecipitates, solid solution and grain size on the magnetic and electrical properties of Fe-P-Si alloys. Journal of Magnetism and Magnetic Materials, 2020, 493, 165743.	2.3	5
159	On the understanding of microstructural evolution during hot deformation of n-ODS-18Cr ferritic steel containing heterogeneous microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140343.	5.6	5
160	Compositionâ€Dependent Longâ€Term Stability of Mosaic Solidâ€Electrolyte Interface for Longâ€Life Lithiumâ€Ion Battery. Batteries and Supercaps, 2021, 4, 1720-1730.	4.7	5
161	On the correlation of erosion and wear resistance of pure metals with their mechanical and thermophysical properties. Scripta Metallurgica, 1985, 19, 347-352.	1.2	4
162	Evaluation of microhardness correction procedures. Wear, 1986, 110, 183-202.	3.1	4

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163	An analysis of the creep embrittlement of Inconel alloy X-750 due to its prior exposure to reduced air pressure at 1150°C. Materials at High Temperatures, 1992, 10, 227-236.	1.0	4
164	The erosion behaviour of an aluminium-lithium alloy. Scripta Metallurgica Et Materialia, 1992, 27, 937-942.	1.0	4
165	Preparation and Characterization of Li-Doped ZnO Nano-Sized Powders for Photocatalytic Applications. Materials Science Forum, 0, 734, 90-116.	0.3	4
166	Effect of Si addition on AC and DC magnetic properties of (Fe-P)-Si alloy. AIP Advances, 2016, 6, .	1.3	4
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