

Alex A Volinsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

397
papers

7,424
citations

39
h-index

65
g-index

411
ext. papers

8,800
ext. citations

4
avg, IF

6.24
L-index

#	Paper	IF	Citations
397	Secondary phases strengthening-toughening effects in the MoTiCuAl ₂ O ₃ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142271	5.3	0
396	Microstructure evolution of graphene reinforced Cu/CeO ₂ /Cr electrical contact materials under thermal deformation behavior. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 1412-1423	5.5	3
395	Microstructure and mechanical properties of friction stir welded powder metallurgy AA2024 alloy. <i>Journal of Central South University</i> , 2022 , 29, 871-882	2.1	0
394	Preparation and properties of graphene reinforced Cu/0.5CeO ₂ 30Cr electrical contact materials. <i>Vacuum</i> , 2021 , 110687	3.7	3
393	Softening Effects in Biological Tissues and NiTi Knitwear during Cyclic Loading. <i>Materials</i> , 2021 , 14,	3.5	1
392	Investigating the fatigue performance of soft multilayer coatings with varying locations of an intermetallic interlayer. <i>International Journal of Fatigue</i> , 2021 , 145, 106130	5	1
391	Thermally stable Al conductor prepared from Al powder with a low oxygen content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 813, 141174	5.3	4
390	Nonparametric estimation of SiC film residual stress from the wafer surface profile. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 177, 109238	4.6	2
389	Deformation Mechanisms of NiP/Ni Composite Coatings on Ductile Substrates. <i>Coatings</i> , 2021 , 11, 834	2.9	
388	Effects of strain rates on dynamic deformation behavior of Cu-20Ag alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 79, 75-87	9.1	6
387	Macrostructure of anisotropic shape memory polymer films studied by the molecular probe method. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50176	2.9	0
386	Review of the fatigue behavior of hard coating-ductile substrate systems. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021 , 28, 46-55	3.1	1
385	Microstructure and properties of Cu-Fe alloys fabricated via powder metallurgy and rolling. <i>Powder Metallurgy</i> , 2021 , 64, 308-320	1.9	0
384	Secondary phases effects on microstructure and mechanical properties of lanthanum-doped titanium-zirconium-molybdenum alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 95, 105439	4.1	0
383	Excellent mechanical properties and high electrical conductivity of Cu-Co-Si-Ti alloy due to multiple strengthening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 821, 141639	5.3	5
382	Theoretical and experimental studies on electronic structure and optical properties of Bi-doped anatase TiO ₂ . <i>Optik</i> , 2021 , 241, 167107	2.5	0
381	Nitrogen effects on structure, mechanical and thermal fracture properties of CrN films. <i>Ceramics International</i> , 2021 , 47, 30729-30740	5.1	2

380	Recent advances and perspective in metal coordination materials-based electrode materials for potassium-ion batteries. <i>Rare Metals</i> , 2021 , 40, 448-470	5.5	31
379	Effect of in situ graphene-doped nano-CeO ₂ on microstructure and electrical contact properties of Cu ₃₀ Cr ₁₀ W contacts. <i>Nanotechnology Reviews</i> , 2021 , 10, 385-400	6.3	5
378	Portable universal tensile testing machine for studying mechanical properties of superelastic biomaterials. <i>Engineering Research Express</i> , 2021 , 3, 045055	0.9	1
377	Microstructure evolution of Cu-1.0Co-0.65Si-0.1Ti alloy during hot deformation. <i>Vacuum</i> , 2020 , 177, 109376	3.76	10
376	Effects of Cr addition on the constitutive equation and precipitated phases of copper alloy during hot deformation. <i>Materials and Design</i> , 2020 , 191, 108613	8.1	23
375	In-situ VN reinforced powder metallurgy M30 steels prepared from water atomized powders via pressureless sintering. <i>Powder Metallurgy</i> , 2020 , 63, 43-53	1.9	1
374	Effects of Microstructure, Mechanical and Physical Properties on Machinability of Graphite Cast Irons. <i>Metals</i> , 2020 , 10, 285	2.3	2
373	Mechanical properties and phases evolution in T91 steel during long-term high-temperature exposure. <i>Engineering Failure Analysis</i> , 2020 , 111, 104451	3.2	10
372	Detonation exfoliated mechanism of graphene-like MoS ₂ prepared by the intercalation-detonation method and promising exfoliation for 2D materials. <i>Applied Surface Science</i> , 2020 , 525, 145867	6.7	5
371	Effects of yttrium oxides on the microstructure and mechanical properties of 15-15Ti ODS alloy fabricated by casting. <i>Materials Characterization</i> , 2020 , 162, 110228	3.9	5
370	Effects of Trace Ce Addition on Hot Deformation Behavior of Cu-0.8 Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 776-786	1.6	
369	Effect of molybdenum particles on thermal and mechanical properties of graphite flake/copper composites. <i>Carbon</i> , 2020 , 161, 169-180	10.4	19
368	Graphene induced growth of Sb ₂ WO ₆ nanosheets for high-performance pseudocapacitive lithium-ion storage. <i>Journal of Alloys and Compounds</i> , 2020 , 839, 155614	5.7	9
367	Effect of Ti addition on microstructure evolution and precipitation in Cu ₃₀ Co ₃₀ Bi alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153518	5.7	24
366	A generic approach of polishing metals via isotropic electrochemical etching. <i>International Journal of Machine Tools and Manufacture</i> , 2020 , 150, 103517	9.4	9
365	Mechanical and Electrical Properties and Phase Analysis of Aged Cu-Mg-Ce Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 1-9	1.6	14
364	Interface microstructure and growth mechanism of brazing Cu/Al joint with BA188Si filler metal. <i>Vacuum</i> , 2020 , 181, 109641	3.7	7
363	A review of microstructure and texture evolution with nanoscale precipitates for copper alloys. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11918-11934	5.5	18

362	EBSD analysis of hot deformation behavior of Cu-Ni-Co-Si-Cr alloy. <i>Materials Characterization</i> , 2020 , 169, 110656	3.9	16
361	Structural, electrochemical and optical properties of Ni doped ZnO: Experimental and theoretical investigation. <i>Optik</i> , 2020 , 219, 165204	2.5	7
360	Strain gauges capable of measuring large cyclical deformations printed on elastic polymer films. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 166, 108107	4.6	0
359	Microstructure Evolution in Cu-Ni-Co-Si-Cr Alloy During Hot Compression by Ce Addition. <i>Materials</i> , 2020 , 13,	3.5	2
358	Simulations and experiments of mould filling in lost foam casting. <i>International Journal of Cast Metals Research</i> , 2020 , 33, 194-200	1	1
357	Graphene oxide effects on the properties of Al ₂ O ₃ -Cu/35W5Cr composite. <i>Journal of Materials Science and Technology</i> , 2020 , 37, 185-199	9.1	11
356	Experimental and theoretical studies of K _x Zn _{1-x} O. <i>Ceramics International</i> , 2020 , 46, 763-767	5.1	5
355	Microstructure Regulation and Coercivity Improvement in the Dy ₂ O ₃ /WS ₂ Co-doped Nd-Fe-B sintered Magnets. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 775-781	1.5	2
354	Tribological and mechanical properties of copper matrix composites reinforced with carbon nanotube and alumina nanoparticles. <i>Materials Research Express</i> , 2019 , 6, 116524	1.7	10
353	High-performance hot-warm rolled Zn-0.8Li alloy with nano-sized metastable precipitates and sub-micron grains for biodegradable stents. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2618-2624	9.1	31
352	Microproperties and interface behavior of the BAg25TS brazed joint. <i>Vacuum</i> , 2019 , 169, 108928	3.7	7
351	Fracture behavior of the La-doped molybdenum-titanium-zirconium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 167-171	5.3	7
350	Proton irradiation effects on the electron work function, corrosion and hardness of austenitic stainless steel phases. <i>Corrosion Science</i> , 2019 , 157, 498-507	6.8	5
349	Synchrotron X-ray Laue diffraction study of hydrogen-induced blisters on iron grain boundaries. <i>Scripta Materialia</i> , 2019 , 169, 82-86	5.6	6
348	In-situ synthesis of TiC-Al ₂ O ₃ coating on copper surface. <i>Surface and Coatings Technology</i> , 2019 , 373, 65-74	4.4	3
347	Effect of microstructure and mechanical properties on cutting force of different cast irons with similar tensile strength. <i>China Foundry</i> , 2019 , 16, 177-183	0.8	2
346	Residual stress and warpage of AMB ceramic substrate studied by finite element simulations. <i>Microelectronics Reliability</i> , 2019 , 98, 49-55	1.2	9
345	Co effects on Cu-Ni-Si alloys microstructure and physical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1327-1337	5.7	37

344	High-density and low-interstitial Ti-23Al-17Nb prepared by vacuum pressureless sintering from blended elemental powders. <i>Vacuum</i> , 2019 , 164, 62-65	3.7	4
343	Brittle coating effects on fatigue cracks behavior in Ti alloys. <i>International Journal of Fatigue</i> , 2019 , 125, 432-439	5	19
342	Electrochemical Performance of 1-Ethyl-3-Methylimidazolium Bis(Trifluoromethylsulfonyl)Imide Ionic Liquid as Electrolyte for Primary Mg-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1103-A1106	3.9	8
341	Atomic force microscopy study of nanoporous gold surface and electrochemical properties. <i>Scripta Materialia</i> , 2019 , 168, 1-4	5.6	1
340	Thermal deformation behavior of the Al ₂ O ₃ -Cu/(W, Cr) electrical contacts. <i>Vacuum</i> , 2019 , 164, 361-366	3.7	14
339	Enhanced morphology and photoelectric properties of one-dimensional TiO ₂ nanorod array films. <i>Chemical Physics Letters</i> , 2019 , 724, 42-49	2.5	10
338	Influences of albumin on in vitro corrosion of pure Zn in artificial plasma. <i>Corrosion Science</i> , 2019 , 153, 341-356	6.8	44
337	Cohesive zone modelling of anodic dissolution stress corrosion cracking induced by corrosion product films. <i>Philosophical Magazine</i> , 2019 , 99, 1090-1102	1.6	0
336	Coercivity enhancement and grain refinement in Nd-Fe-B sintered magnets with pyrite doping by jet milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 146-150	2.8	3
335	Long-term in vivo study of biodegradable Zn-Cu stent: A 2-year implantation evaluation in porcine coronary artery. <i>Acta Biomaterialia</i> , 2019 , 97, 657-670	10.8	46
334	Multiscale recycling rare earth elements from real waste trichromatic phosphors containing glass. <i>Journal of Cleaner Production</i> , 2019 , 238, 117998	10.3	18
333	Effects of Particle Characteristic Parameters on the Electrical Conductivity of TiB ₂ /Cu Composites: A Modified Model for Predicting Their Electrical Conductivity. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4316-4323	1.6	4
332	Characterization and Integrated Fabrication of Al Components with Thick TiCp/Al Composite Coatings via Self-Propagating Reaction. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4485-4495 ⁰	1.6	0
331	Suppressed voltage decay and improved electrochemical performance by coating LiAl ₅ O ₈ on the surface of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1034-1043	5.7	19
330	Thermodynamics Analysis of Multiple Microelements Coupling Behavior in High Fatigue Resistance 50CrVA Spring Steel with Nanoparticles. <i>Materials</i> , 2019 , 12,	3.5	1
329	High-Carbon Ferrochrome Effects on Microstructure and Mechanical Properties of Powder Metallurgy Titanium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 5361-5368	1.6	3
328	Ti Alloy Three-Way Pipe Fabricated by the Combination of 3D Printing and Cold Isostatic Pressing. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6219-6227	1.6	
327	Recording digital color information on transparent polyethylene films by thermal treatment. <i>Applied Optics</i> , 2019 , 58, 172-176	1.7	2

326	Cr effects on the electrical contact properties of the Al ₂ O ₃ -Cu/15W composites. <i>Nanotechnology Reviews</i> , 2019 , 8, 128-135	6.3	13
325	Review of nano-phase effects in high strength and conductivity copper alloys. <i>Nanotechnology Reviews</i> , 2019 , 8, 383-395	6.3	29
324	Electrical conductivity anisotropy of copper matrix composites reinforced with SiC whiskers. <i>Nanotechnology Reviews</i> , 2019 , 8, 285-292	6.3	11
323	Electrochemical performance of Mg-air batteries based on AZ series magnesium alloys. <i>Ionics</i> , 2019 , 25, 2201-2209	2.7	15
322	Tribo-corrosion and Albumin Attachment of Nitrogen Ion-Implanted CoCrMo Alloy During Friction Onset. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 363-371	1.6	3
321	3D printing of NdFeB bonded magnets with SrFe ₁₂ O ₁₉ addition. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 900-907	5.7	25
320	3D gel printing of graded TiC-high manganese steel cermet. <i>Journal of Materials Science</i> , 2019 , 54, 2122-2132	4.3	8
319	Performance of Nd-Fe-B Magnets Fabricated by Hot Isostatic Pressing and Low-Temperature Sintering. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 273-277	1.6	2
318	Cu-Doped ZnO Electronic Structure and Optical Properties Studied by First-Principles Calculations and Experiments. <i>Materials</i> , 2019 , 12,	3.5	49
317	Aging behavior and phase transformation of the Cu-0.2 wt%Zr-0.15 wt%Y alloy. <i>Vacuum</i> , 2019 , 159, 367-373	3.7	12
316	Initial formation of corrosion products on pure zinc in saline solution. <i>Bioactive Materials</i> , 2019 , 4, 87-96	16.7	54
315	Arc erosion behavior of the Al ₂ O ₃ -Cu/(W, Cr) electrical contacts. <i>Composites Part B: Engineering</i> , 2019 , 160, 110-118	10	41
314	Effects of Ce and Y addition on microstructure evolution and precipitation of Cu-Mg alloy hot deformation. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 118-130	5.7	24
313	Temperature effects on magnetic properties of Fe ₃ O ₄ nanoparticles synthesized by the sol-gel explosion-assisted method. <i>Journal of Alloys and Compounds</i> , 2019 , 773, 605-611	5.7	37
312	Proton Irradiation Effects on Hardness and the Volta Potential of Welding 308L Duplex Stainless Steel. <i>Micromachines</i> , 2018 , 10,	3.3	1
311	Tensile Deformation Temperature Impact on Microstructure and Mechanical Properties of AISI 316LN Austenitic Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1232-1240	1.6	9
310	Constitutive Model for Hot Deformation of the Cu-Zr-Ce Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 728-738	1.6	8
309	Crack initiation mechanism in lanthanum-doped titanium-zirconium-molybdenum alloy during sintering and rolling. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 532-537	5.7	15

308	First principles calculations study of crystallographic orientation effects on SiC/Ti and SiC/Cr interfaces. <i>Microelectronics Reliability</i> , 2018 , 83, 119-126	1.2	8
307	Impacts of multiple laser shock processing on microstructure and mechanical property of high-carbon steel. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 469-475	1.2	1
306	Periodic cracks and temperature-dependent stress in Mo/Si multilayers on Si substrates. <i>Philosophical Magazine</i> , 2018 , 98, 1765-1779	1.6	1
305	Annealing Effects on Microstructure and Mechanical Properties of Ultrafine-Grained Al Composites Reinforced with Nano-Al ₂ O ₃ by Rotary Swaging. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1738-1745	1.6	5
304	In-situ stress gradient evolution and texture-dependent fracture of brittle ceramic thin films under external load. <i>Ceramics International</i> , 2018 , 44, 8176-8183	5.1	7
303	Preparation and formation mechanism of monodisperse micaceous iron oxide from iron chromium grinding waste. <i>Powder Technology</i> , 2018 , 329, 401-408	5.2	4
302	Passivation of hydrogen damage using graphene coating on Fe ₂ O ₃ films. <i>Carbon</i> , 2018 , 130, 19-24	10.4	16
301	Residual stress control in CrAlN coatings deposited on Ti alloys. <i>Ceramics International</i> , 2018 , 44, 4653-4659	9.5	12
300	Vacuum Pressureless Sintering of Ti-6Al-4V Alloy with Full Densification and Forged-Like Mechanical Properties. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 282-292	1.6	13
299	Synthesis of lead sulfide by heavy metal gypsum matched with lead paste. <i>Journal of Cleaner Production</i> , 2018 , 182, 280-290	10.3	4
298	Antibacterial activity and inflammation inhibition of ZnO nanoparticles embedded TiO nanotubes. <i>Nanotechnology</i> , 2018 , 29, 244003	3.4	32
297	Ultrafast synthesis of amorphous VO _x embedded into 3D strutted amorphous carbon frameworks. Short-range order in dual-amorphous composites boosts lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7053-7061	13	9
296	Scaling Effects on Color and Transparency of Multilayer Polyethylene Films in Polarized Light. <i>Advances in Polymer Technology</i> , 2018 , 37, 668-673	1.9	5
295	Oxidation layering mechanism of graphene-like MoS ₂ prepared by the intercalation-detonation method. <i>Nano Research</i> , 2018 , 11, 997-1003	10	3
294	Lorentz force induced magnetoelectric effect in cylindrical composites with PZT/magnetostrictive and nonmagnetic metal layers. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 483-486	5.7	3
293	Comparative study of Ti and Cr adhesion to the AlN ceramic: Experiments and calculations. <i>Applied Surface Science</i> , 2018 , 457, 856-862	6.7	12
292	Enhanced electrochemical performance of perovskite LaNiO ₃ coating on Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ as cathode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 283, 1203-1212	6.7	15
291	Study of oxygen evolution reaction on amorphous Au@NiP nanocluster. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14545-14556	3.6	5

290	Ultrahigh thermal conductivity copper/graphite membrane composites prepared by tape casting with hot-pressing sintering. <i>Materials Letters</i> , 2018 , 231, 60-63	3.3	7
289	Hot Deformation Behavior of the 20 vol.% TiC/Cu-Al ₂ O ₃ Composites. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 4791-4798	1.6	2
288	Hydrostatic pressure effects on hydrogen entry into A514 steel with cathodic deposits. <i>Electrochimica Acta</i> , 2018 , 283, 1534-1542	6.7	5
287	Residual stress and microstructure effects on mechanical, tribological and electrical properties of TiN coatings on 304 stainless steel. <i>Ceramics International</i> , 2018 , 44, 15851-15858	5.1	26
286	Effects of Ce addition on the Cu-Mg-Fe alloy hot deformation behavior. <i>Vacuum</i> , 2018 , 155, 594-603	3.7	24
285	Sulfur doping effect on microstructure and magnetic properties of Nd-Fe-B sintered magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 446, 214-220	2.8	7
284	Solution combustion synthesis of nanostructured iron oxides with controllable morphology, composition and electrochemical performance. <i>Ceramics International</i> , 2018 , 44, 4237-4247	5.1	21
283	Study on Pure Mercurous Chloride Leaching with Sodium Thiosulfate. <i>Russian Journal of Non-Ferrous Metals</i> , 2018 , 59, 589-595	0.8	3
282	The Improved Thermal Conductivity of a Potting Material for High-Power Fast Warm-Up Cathodes. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6701-6708	1.6	1
281	The hydrogen-induced pitting corrosion mechanism in duplex stainless steel studied by current-sensing atomic force microscopy. <i>Npj Materials Degradation</i> , 2018 , 2,	5.7	4
280	Effects of thickness ratios and sputtering mode on the structural, electrical and optical properties of bilayer molybdenum thin films. <i>AIP Advances</i> , 2018 , 8, 095028	1.5	2
279	First principles calculations of interfacial properties and electronic structure of the AlN(0 0 0 1)/Ti(0 0 0 1) interface. <i>Chemical Physics Letters</i> , 2018 , 713, 153-159	2.5	9
278	3D gel-printing of Sr ferrite parts. <i>Ceramics International</i> , 2018 , 44, 22370-22377	5.1	21
277	Thermodynamic Analysis of TiO ₂ Nanoparticles Formed in Melt and Their Effects on Ferritic Steel Microstructure. <i>Materials</i> , 2018 , 11,	3.5	2
276	Numerical simulations of the Cu/Al composite plate continuous cast-rolling process. <i>Materials Research Express</i> , 2018 , 5, 126505	1.7	2
275	Initial formation of corrosion products on pure zinc in simulated body fluid. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 2271-2282	9.1	50
274	Secondary phases formation in lanthanum-doped titanium-zirconium-molybdenum alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 340-347	5.7	12
273	Height-related magnetoelectric performance of PZT/Ni layered composites. <i>Rare Metals</i> , 2017 , 36, 591-595	5.5	1

272	Effects of Ag Addition on Hot Deformation Behavior of CuNiSi Alloys . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600607	3.5	18
271	Synthesis of hypoxia-high density TZM alloy based on mechanochemistry and particle size distribution theories. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 994-1001	5.7	6
270	Cyclic microbridge testing of graphene oxide membrane. <i>Carbon</i> , 2017 , 116, 479-489	10.4	3
269	Low-temperature combustion synthesis of hexagonal WO ₃ ·0.33H ₂ O@C as anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 215-221	5.7	13
268	Temperature-Dependent Multi-Scale Pore Evolution and Nitrogen Diffusion in Nuclear Graphite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3008-3016	2.3	1
267	Modified Qigong Breathing Exercise for Reducing the Sense of Hunger on an Empty Stomach. <i>Journal of Evidence-Based Complementary & Alternative Medicine</i> , 2017 , 22, 687-695		3
266	Cathodic over-potential and hydrogen partial pressure coupling in hydrogen evolution reaction of marine steel under hydrostatic pressure. <i>Electrochimica Acta</i> , 2017 , 247, 1019-1029	6.7	12
265	Hydrogen redistribution under stress-induced diffusion and corresponding fracture behaviour of a structural steel. <i>Materials Science and Technology</i> , 2017 , 33, 1539-1547	1.5	12
264	Effect of glycine on one-step solution combustion synthesis of magnetite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 288-295	5.7	33
263	Film thickness effect on texture and residual stress sign transition in sputtered TiN thin films. <i>Ceramics International</i> , 2017 , 43, 11992-11997	5.1	50
262	Edge eigen-stress and eigen-displacement of armchair molybdenum disulfide nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1568-1572	2.3	2
261	Failure analysis of high nickel alloy steel seal ring used in turbomachinery. <i>Engineering Failure Analysis</i> , 2017 , 80, 49-56	3.2	2
260	Graphene-like MoS ₂ prepared by a novel intercalation-detonation method. <i>Materials Letters</i> , 2017 , 188, 224-227	3.3	8
259	Immobilization mechanism of Pb in fly ash-based geopolymer. <i>Construction and Building Materials</i> , 2017 , 134, 123-130	6.7	73
258	Hydrostatic pressure effects on the kinetic parameters of hydrogen evolution and permeation in Armco iron. <i>Electrochimica Acta</i> , 2017 , 255, 230-238	6.7	17
257	Pitting Initiation and Propagation of X70 Pipeline Steel Exposed to Chloride-Containing Environments. <i>Materials</i> , 2017 , 10,	3.5	19
256	Aging Strengthening Mechanism of the Cu-1.0Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 5628-5634	2.3	5
255	Edge geometry effects on resonance response of electroplated cylindrical Ni/PZT/Ni magnetoelectric composites. <i>AIP Advances</i> , 2017 , 7, 085305	1.5	6

254	Hot workability and constitutive model of the Cu-Zr-Nd alloy. <i>Vacuum</i> , 2017 , 146, 35-43	3.7	30
253	Control of the offset printing image quality indices. <i>Journal of Physics: Conference Series</i> , 2017 , 858, 012038	3.8	1
252	High temperature brittle film adhesion measured from annealing-induced circular blisters. <i>Acta Materialia</i> , 2017 , 138, 1-9	8.4	22
251	Annealing effects on microstructure and mechanical properties of cryorolled Fe-25Cr-20Ni steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 68-75	5.3	15
250	Small Y Addition Effects on Hot Deformation Behavior of Copper-Matrix Alloys. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700197	3.5	10
249	Facile preparation of hexagonal WO ₃ @ ZnO/C nanostructures and its electrochemical properties for lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 394, 70-77	6.7	33
248	Precipitated Al ₂ O ₃ phase characterization in internally oxidized Cu-Al alloy sheets. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 452-457	5.7	3
247	Substrate Frequency Effects on Cr x N Coatings Deposited by DC Magnetron Sputtering. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 366-373	1.6	13
246	Optimizing ductility and fracture of amorphous metal thin films on polyimide using multilayers. <i>International Journal of Fracture</i> , 2017 , 204, 129-142	2.3	8
245	Effect of Hydrogen Exposure on Mechanical and Tribological Behavior of CrN Coatings Deposited at Different Pressures on IN718. <i>Materials</i> , 2017 , 10,	3.5	9
244	A Statistical Study on the Effect of Hydrostatic Pressure on Metastable Pitting Corrosion of X70 Pipeline Steel. <i>Materials</i> , 2017 , 10,	3.5	15
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