

Fuqian Yang

List of Publications by Year in descending order

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270
papers

4,778
citations

136950

32
h-index

144013

57
g-index

274
all docs

274
docs citations

274
times ranked

4622
citing authors

#	ARTICLE	IF	CITATIONS
1	Cycling-induced structural damage/degradation of electrode materialsâ€“microscopic viewpoint. <i>Nanotechnology</i> , 2022, 33, 065405.	2.6	8
2	Glucose-derived activated carbons for supercapacitors: comparison between single O doping and N/O co-doping. <i>Electrochimica Acta</i> , 2022, 406, 139861.	5.2	17
3	Damage model for diffusion-induced structural degradation of metal-ion battery. <i>Journal of Energy Storage</i> , 2022, 45, 103748.	8.1	5
4	Amorphous TiO_2 nanotube arrays with Au nanocrystals for lithium-ion battery. <i>International Journal of Energy Research</i> , 2022, 46, 7578-7589.	4.5	6
5	A free volume-based analytical model for plastic flow in thin-walled silicon structures of lithium-ion batteries. <i>Acta Mechanica</i> , 2022, 233, 561-578.	2.1	4
6	An alternative method of solvent-induced stresses in an elastic thin slab: Moutier theorem. <i>Polymer Engineering and Science</i> , 2022, 62, 1178-1186.	3.1	0
7	Stress effect on bandgap change of a semiconductor nanocrystal in an elastic matrix. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 428, 127931.	2.1	7
8	A physics-inspired neural network to solve partial differential equations â€“ application in diffusion-induced stress. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7937-7949.	2.8	7
9	Identifying molecular fluorophore impurities in the synthesis of low-oxygen-content, carbon nanodots derived from pyrene. <i>New Journal of Chemistry</i> , 2022, 46, 8324-8333.	2.8	3
10	Modeling analysis of the growth of a cubic crystal in a finite space. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	0
11	Kinetic analysis of the growth of semiconductor nanocrystals from the peak wavelength of photoluminescence. <i>EPL Applied Physics</i> , 2022, 97, 20.	0.7	0
12	MAPbBr_3 nanocrystals from aqueous solution for poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (methacrylate) photoluminescence. <i>Nanotechnology</i> , 2022, 33, 235605.	2.6	7
13	In Situ Growth Mechanism for High-Quality Hybrid Perovskite Single-Crystal Thin Films with High Area to Thickness Ratio: Looking for the Sweet Spot. <i>Advanced Science</i> , 2022, 9, e2104788.	11.2	16
14	Numerical calculation of lithiation-induced stress in a spherical electrode: Effect of lithiation-induced structural damage. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142873.	5.6	5
15	Controllable adjustment of oxygen contents in activated carbons and oxygen effect on electrochemical performances in supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 12274-12289.	4.5	4
16	Generalized Theory for DISes in a Large Deformed Solid. <i>International Journal of Applied Mechanics</i> , 2022, 14, .	2.2	1
17	Electrochemical performance of symmetric supercapacitors under compression: Size effects of activated carbon spheres. <i>International Journal of Energy Research</i> , 2022, 46, 12871-12884.	4.5	4
18	Heterogeneous Nucleation of an Embryo in the Shape of Square Prism: Effect of Surface Roughness. <i>Langmuir</i> , 2022, 38, 7218-7224.	3.5	2

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19	Effects of stress-assisted migration on potentiostatic intermittent titration technique (PITT) in spherical particles. <i>Electrochimica Acta</i> , 2022, 425, 140732.	5.2	1
20	Kinetic analysis of the growth behavior of perovskite CsPbBr ₃ nanocrystals in a microfluidic system. <i>Lab on A Chip</i> , 2022, 22, 2832-2843.	6.0	6
21	Effects of surface stress on the indentation response of an elastic half-space. <i>International Journal of Mechanical Sciences</i> , 2022, 229, 107512.	6.7	3
22	Homogeneous nucleation in a Poiseuille flow. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3974-3982.	2.8	3
23	Contact-induced change of the bandgap of semiconductors of the wurtzite structure. <i>Journal of Applied Physics</i> , 2021, 129, 065702.	2.5	0
24	Diffusion-Limited Growth of a Spherical Nanocrystal in a Finite Space. <i>Langmuir</i> , 2021, 37, 3912-3921.	3.5	5
25	Capillary-induced deformation of an initially stressed neoHookean solid: A sessile liquid droplet. <i>Mechanics Research Communications</i> , 2021, 113, 103688.	1.8	2
26	Generalized Theory for Diffusion-Induced Stress. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040520.	2.9	7
27	A High-Performance Symmetric Supercapacitor from Porous Activated Carbon under Compression. <i>Energy Technology</i> , 2021, 9, 2100068.	3.8	14
28	Electrochemical performance of potato-derived activated carbon: Effect of compressive stress. <i>Journal of Energy Storage</i> , 2021, 37, 102476.	8.1	8
29	Dielectric breakdown sizes of conducting plates. <i>IMA Journal of Applied Mathematics</i> , 2021, 86, 502-513.	1.6	1
30	Kinetics for the Slip Motion of Ripple Dislocations on Gold-Coated Poly(dimethylsiloxane). <i>Langmuir</i> , 2021, 37, 5943-5949.	3.5	1
31	Size effect on the bandgap change of quantum dots: Thermomechanical deformation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 401, 127346.	2.1	9
32	Compression of surface-wetted carbon-microsphere-based disks. <i>Powder Technology</i> , 2021, 387, 72-79.	4.2	0
33	Impression deformation of carbon-microsphere and polytetrafluoroethylene composite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115199.	3.5	1
34	Water-driven surface wrinkling of poly(2-hydroxyethyl methacrylate) after ultraviolet irradiation. <i>Journal of Polymer Research</i> , 2021, 28, .	2.4	2
35	High-performance activated carbons for supercapacitor: Effects of porous structures, heteroatom doping, and morphology. <i>International Journal of Energy Research</i> , 2021, 45, 21414-21434.	4.5	18
36	Water-driven CsPbBr ₃ nanocrystals and poly(methyl methacrylate)-CsPbBr ₃ nanocrystal films with bending-endurable photoluminescence. <i>Chemical Engineering Journal</i> , 2021, 425, 131456.	12.7	26

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37	Spreading of Water Droplets on Cellulose-Based Papers: the Effect of Back-Surface Coating. <i>Langmuir</i> , 2021, 37, 376-384.	3.5	5
38	Unstable crack growth in hydraulic fracturing: The combined effects of pressure and shear stress for a power-law fluid. <i>Engineering Fracture Mechanics</i> , 2020, 225, 106245.	4.3	21
39	Porous Sb with three-dimensional Sb nanodendrites as electrode material for high-performance Li/Na-ion batteries. <i>Nanotechnology</i> , 2020, 31, 175401.	2.6	8
40	Sb nanocrystal-anchored hollow carbon microspheres for high-capacity and high-cycling performance lithium-ion batteries. <i>Nanotechnology</i> , 2020, 31, 135404.	2.6	6
41	High-performance activated carbons for electrochemical double layer capacitors: Effects of morphology and porous structures. <i>International Journal of Energy Research</i> , 2020, 44, 1930-1950.	4.5	24
42	Soybean-waste-derived activated porous carbons for electrochemical-double-layer supercapacitors: Effects of processing parameters. <i>Journal of Energy Storage</i> , 2020, 27, 101070.	8.1	32
43	An analytical model for lithiation-induced concurrent plastic flow and phase transformation in a cylindrical silicon electrode. <i>International Journal of Solids and Structures</i> , 2020, 202, 87-98.	2.7	10
44	Effects of laser power and substrate on the Raman shift of carbon-nanotube papers. <i>Carbon Trends</i> , 2020, 1, 100009.	3.0	7
45	Tuning electrochemical performance of carbon-sphere-based supercapacitors by compressive stress. <i>Electrochimica Acta</i> , 2020, 357, 136874.	5.2	27
46	Integral capacitance of diffusion layer for rectangular structures. <i>Journal of Energy Storage</i> , 2020, 30, 101477.	8.1	6
47	Creep deformation of poly(methyl methacrylate)-multiwalled carbon nanotube composites. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	3
48	A stress-based charging protocol for silicon anode in lithium-ion battery: Theoretical and experimental studies. <i>Journal of Energy Storage</i> , 2020, 32, 101765.	8.1	21
49	Thermomechanical deformation of polyethylene-terephthalate artificial muscles. <i>Polymer</i> , 2020, 210, 123013.	3.8	6
50	Solvent-induced deflection of polydimethylsiloxane plates: Effects of dimensions and solvent volume. <i>European Physical Journal E</i> , 2020, 43, 49.	1.6	3
51	Geometrical effects on ionic diffusion in carbon-carbon symmetric supercapacitors. <i>International Journal of Energy Research</i> , 2020, 44, 12066-12080.	4.5	9
52	A note on the effect of surface energy on the growth of a tin whisker. <i>Philosophical Magazine Letters</i> , 2020, 100, 486-493.	1.2	3
53	Review of $\hat{\gamma}$ ™ Rafting Behavior in Nickel-Based Superalloys: Crystal Plasticity and Phase-Field Simulation. <i>Crystals</i> , 2020, 10, 1095.	2.2	10
54	Modeling analysis for the growth of a Li sphere and Li whisker in a solid-state lithium metal battery. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13737-13745.	2.8	7

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55	Cladding Inconel 625 on cast iron via bypass coupling micro-plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2020, 56, 106-115.	5.9	16
56	Analysis of a cylindrical silicon electrode with a pre-existing crack: Path-independent \tilde{A} -integral. <i>International Journal of Mechanical Sciences</i> , 2020, 177, 105602.	6.7	6
57	Mechanical properties of Cu nanowires: Effects of cross-sectional area and temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139644.	5.6	12
58	Coupling effects of self-limiting lithiation, reaction front evolution and free volume evolution on chemical stress in amorphous wire-based electrodes. <i>Journal of Power Sources</i> , 2020, 457, 228016.	7.8	19
59	A Free Volume-Based Viscoplastic Model for Amorphous Silicon Electrode of Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040518.	2.9	10
60	Soybean-derived blue photoluminescent carbon dots. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 606-619.	2.8	28
61	Nucleation in a liquid droplet. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9990-9997.	2.8	4
62	Nitrogen-induced shift of photoluminescence from green to blue emission for xylose-derived carbon dots. <i>Nano Express</i> , 2020, 1, 020018.	2.4	3
63	Indentation Deformation of a Cu _{47.5} Zr ₁₉ Hf _{28.5} Al ₅ Bulk-Metallic Glass-Matrix Nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1530-1539.	0.9	0
64	Quantum-dots-based materials for temperature sensing: effect of cyclic heating-cooling on fluorescence. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	5
65	Semi-analytical solution of lithiation-induced stress in a finite cylindrical electrode. <i>Journal of Energy Storage</i> , 2019, 25, 100834.	8.1	2
66	Fatigue-induced evolution of nanograins and residual stress in the nanostructured surface layer of Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 764, 138205.	5.6	11
67	Rate-dependent plastic buckling of a core-shell wire. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 435502.	2.8	4
68	Fluorescence of CdSe/ZnS quantum dots in toluene: effect of cyclic temperature. <i>Energy Procedia</i> , 2019, 158, 5895-5900.	1.8	0
69	Structural Degradation of Cu Current Collector During Electrochemical Cycling of Sn-Based Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7543-7550.	2.2	9
70	Brownian motion and Einstein relation for migration of coffee particles in coffee suspensions. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 3950-3956.	3.5	3
71	Au nanocrystals decorated TiO ₂ nanotube arrays as anode material for lithium ion batteries. <i>Applied Surface Science</i> , 2019, 476, 948-958.	6.1	37
72	Transient analysis of diffusion-induced deformation in a viscoelastic electrode. <i>AIP Advances</i> , 2019, 9, 065111.	1.3	5

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73	Tensile deformation of artificial muscles: Annealed nylon 6 lines. <i>Polymer</i> , 2019, 177, 49-56.	3.8	5
74	Conversion of soybean waste to sub-micron porous-hollow carbon spheres for supercapacitor via a reagent and template-free route. <i>Materials Today Energy</i> , 2019, 13, 50-55.	4.7	33
75	Analysis of large-deformed electrode of lithium-ion battery: Effects of defect evolution and solid reaction. <i>International Journal of Solids and Structures</i> , 2019, 170, 1-10.	2.7	20
76	Effect of Polypyrrole Coating on Lithium Storage for Hollow Sb Microspheres. <i>Journal of Electronic Materials</i> , 2019, 48, 2233-2241.	2.2	3
77	Size effect on electric-double-layer capacitances of conducting structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2353-2360.	2.1	11
78	Stress effect on self-limiting lithiation in silicon-nanowire electrode. <i>Applied Physics Express</i> , 2019, 12, 045004.	2.4	8
79	Growth of Polystyrene Pillars in Electric Field. <i>Langmuir</i> , 2019, 35, 4966-4975.	3.5	6
80	Crosslinking gradients of a photopolymerized multifunctional acrylate film control mechanical properties. <i>Journal of Coatings Technology Research</i> , 2019, 16, 1153-1163.	2.5	3
81	A phase-field study of the effect of local deformation velocity on lithiation-induced stress in wire-like structures. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 145501.	2.8	4
82	Kinetic analysis of the anodic growth of TiO ₂ nanotubes: effects of voltage and temperature. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14098-14108.	5.5	23
83	Transient analysis of diffusion-induced stress: effect of solid reaction. <i>Acta Mechanica</i> , 2019, 230, 993-1002.	2.1	12
84	A defect-based viscoplastic model for large-deformed thin film electrode of lithium-ion battery. <i>International Journal of Plasticity</i> , 2019, 115, 293-306.	8.8	38
85	Electrochemical behavior and self-organization of porous Sn nanocrystals@acetylene black microspheres in lithium-ion half cells. <i>Applied Surface Science</i> , 2019, 470, 36-43.	6.1	13
86	Time-dependent deformation of artificial muscles based on Nylon 6. <i>Materials Science and Engineering C</i> , 2019, 98, 445-451.	7.3	5
87	Coexistence and Sudden Entrapment between Two Dissimilar, Miscible Oil Lenses. <i>Langmuir</i> , 2019, 35, 911-920.	3.5	3
88	Growth of perovskite nanocrystals in poly-tetra fluoroethylene based microsystem: on-line and off-line measurements. <i>Nanotechnology</i> , 2019, 30, 145602.	2.6	9
89	One-dimensional analysis of the coupling between diffusion and deformation in a bilayer electrode. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 589-599.	3.4	10
90	Nanoscale serration and creep characteristics of Al _{0.5} CoCrCuFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018, 752, 464-475.	5.5	69

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91	Pit evolution around the fusion line of a NiCrMoV steel welded joint caused by galvanic and stress-assisted coupling corrosion. RSC Advances, 2018, 8, 3399-3409.	3.6	10
92	Determining the Degree of [001] Preferred Growth of Ni(OH) ₂ Nanoplates. Nanomaterials, 2018, 8, 991.	4.1	5
93	Electrochemical performance and morphological evolution of hollow Sn microspheres. Solid State Ionics, 2018, 325, 120-127.	2.7	19
94	Local Deformation and Texture of Cold-Rolled AA6061 Aluminum Alloy. Materials, 2018, 11, 1866.	2.9	7
95	Can Raman Shift Be Used To Characterize the Mechanical Property of Graphene?. Journal of Physical Chemistry C, 2018, 122, 24467-24474.	3.1	5
96	Contact Interaction of Two Oil Lenses Floating on Surface of Deionized Water. Langmuir, 2018, 34, 11992-12001.	3.5	7
97	Lithiation-induced buckling of wire-based electrodes in lithium-ion batteries: A phase-field model coupled with large deformation. International Journal of Solids and Structures, 2018, 144-145, 289-300.	2.7	17
98	Effects of powder on microstructure, tensile, and corrosion behavior of aluminum-steel joints. Journal of Laser Applications, 2018, 30, 032006.	1.7	4
99	Supercapacitors from high fructose corn syrup-derived activated carbons. Materials Today Energy, 2018, 9, 406-415.	4.7	62
100	Effect of graphene on the absorption of methanol and crack healing in poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 0 Td (meth	2.7	0
101	Hierarchical NiO Microflowers for High Performance Supercapacitors. Journal of Electronic Materials, 2018, 47, 6774-6780.	2.2	5
102	Microstructures and mechanical behavior of magnesium processed by ECAP at ice-water temperature. Journal Physics D: Applied Physics, 2018, 51, 185302.	2.8	2
103	Through-thickness texture gradient and microhardness of cold-rolled AA6061. Materials Research Express, 2018, 5, 066521.	1.6	3
104	Well-Aligned Au/TiO ₂ Nanorods by Magnetron Sputtering with Enhanced Photocatalytic Properties. Journal of Nanoscience and Nanotechnology, 2018, 18, 4397-4402.	0.9	2
105	Absorption behavior of poly(methyl methacrylate)â€™ multiwalled carbon nanotube composites: effects of UV irradiation. Physical Chemistry Chemical Physics, 2017, 19, 7359-7369.	2.8	9
106	Analysis of charging-induced structural damage in electrochemical systems. Physical Chemistry Chemical Physics, 2017, 19, 7072-7077.	2.8	2
107	Large deformation analysis of diffusion-induced buckling of nanowires in lithium-ion batteries. International Journal of Solids and Structures, 2017, 108, 230-243.	2.7	31
108	Cracking and healing in poly(methyl methacrylate): effect of solvent. Journal of Polymer Research, 2017, 24, 1.	2.4	9

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109	Methanol-assisted crack healing in UV-irradiated poly(methyl methacrylate). <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	2
110	Capacitance of an elliptical disk on a semi-infinite dielectric material. <i>Journal of Electrostatics</i> , 2017, 87, 276-283.	1.9	4
111	Analysis of whisker growth on a surface of revolution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2767-2771.	2.1	7
112	Comparison between single loading and unloading indentation and continuous stiffness indentation. <i>RSC Advances</i> , 2017, 7, 35655-35665.	3.6	25
113	Analysis and modeling of the growth of intermetallic compounds in aluminum-steel joints. <i>RSC Advances</i> , 2017, 7, 37797-37805.	3.6	34
114	Magnesium nanocomposites reinforced with a high volume fraction of SiC particulates. <i>International Journal of Materials Research</i> , 2017, 108, 848-856.	0.3	10
115	Effect of oxide on surface tension of molten metal. <i>RSC Advances</i> , 2017, 7, 53941-53950.	3.6	16
116	Field-induced formation and growth of pillars on films of bisphenol-A-polycarbonate. <i>RSC Advances</i> , 2017, 7, 9015-9023.	3.6	2
117	Diffusion-induced bending of viscoelastic beams. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 137-145.	6.7	10
118	Au-TiO ₂ nanofilms for enhanced photocatalytic activity. <i>Thin Solid Films</i> , 2017, 636, 490-498.	1.8	11
119	Analysis of diffusion-induced delamination of an elastic-perfectly plastic film on a deformable substrate under potentiostatic operation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 065019.	2.0	4
120	Relation between surface stress and surface energy for an elastic sphere: Effects of deformation and Maxwell stress. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	4
121	PTFE-based microreactor system for the continuous synthesis of full-visible-spectrum emitting cesium lead halide perovskite nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2521-2529.	2.8	8
122	Fast diffusion of silver in TiO ₂ nanotube arrays. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1129-1140.	2.8	8
123	Texture Evolution of Single-Pass Hot-Rolled 5052/AZ31/5052 Clad Sheets. <i>Jom</i> , 2016, 68, 2274-2287.	1.9	9
124	Percutaneous double lumen cannula for right ventricle assist device system: A computational fluid dynamics study. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 482-490.	5.9	6
125	Effect of local velocity on diffusion-induced stress in large-deformation electrodes of lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 319, 168-177.	7.8	45
126	Kinetics of Field-Induced Surface Patterns on PMMA. <i>Langmuir</i> , 2016, 32, 4602-4609.	3.5	6

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127	Diffusion kinetics of gold in TiO ₂ nanotube arrays for formation of Au@TiO ₂ nanotube arrays. RSC Advances, 2016, 6, 48580-48588.	3.6	12
128	A Nonlinear Viscous Model for Sn-Whisker Growth. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5882-5889.	2.2	6
129	Splitting-induced surface patterns on the surface of polystyrene thin films. RSC Advances, 2016, 6, 94949-94958.	3.6	1
130	Evaporation-induced self-assembly of quantum dots-based concentric rings on polymer-based nanocomposite films. Soft Matter, 2016, 12, 8285-8296.	2.7	15
131	Effect of gamma-ray irradiation on isothermal crystallization of biodegradable poly(ethylene Tj ETQq1 1 0.784314 1.6 /Overlock 10	1.6	1
132	Effect of ultraviolet-irradiation on peeling-induced formation of surface gratings on PMMA films. Journal of Materials Research, 2016, 31, 2004-2010.	2.6	2
133	Boussinesq type solution for a viscoelastic thin film on an elastic substrate. International Journal of Mechanical Sciences, 2016, 117, 79-92.	6.7	7
134	Self-Similar Random Process and Chaotic Behavior In Serrated Flow of High Entropy Alloys. Scientific Reports, 2016, 6, 29798.	3.3	21
135	Nanoindentation of carbon microspheres. International Journal of Materials Research, 2016, 107, 687-691.	0.3	7
136	Generalized Butler-Volmer relation on a curved electrode surface under the action of stress. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	17
137	Shear-lag model of diffusion-induced buckling of core-shell nanowires. Journal Physics D: Applied Physics, 2016, 49, 285602.	2.8	8
138	Evaporation of a Volatile Liquid Lens on the Surface of an Immiscible Liquid. Langmuir, 2016, 32, 6058-6067.	3.5	18
139	Effect of Annealing on Microstructure and Tensile Properties of 5052/AZ31/5052 Clad Sheets. Jom, 2016, 68, 1282-1292.	1.9	10
140	The effect of a capillary bridge on the crack opening of a penny crack. Soft Matter, 2016, 12, 1586-1592.	2.7	11
141	Optical response of a quantum dot-epoxy resin composite: effect of tensile strain. RSC Advances, 2016, 6, 18126-18133.	3.6	14
142	Hemp-derived activated carbons for supercapacitors. Carbon, 2016, 103, 181-192.	10.3	208
143	Effect of local deformation on the coupling between diffusion and stress in lithium-ion battery. International Journal of Solids and Structures, 2016, 87, 81-89.	2.7	35
144	Formation of self-organized surface structures on poly(methyl methacrylate) films: effect of two contacting metallic wires. Journal of Polymer Research, 2015, 22, 1.	2.4	1

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145	Viscoplastic response of tooth enamel under cyclic microindentation. <i>Materials Science and Engineering C</i> , 2015, 55, 448-456.	7.3	8
146	A Thermodynamic Perspective for Formation of Solid Electrolyte Interphase in Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 173, 736-742.	5.2	2
147	Capacitance analysis of a circular disk on a dielectric layer. <i>Journal of Electrostatics</i> , 2015, 76, 48-53.	1.9	2
148	Effect of gamma irradiation on high temperature hardness of low-density polyethylene. <i>Philosophical Magazine</i> , 2015, 95, 3486-3496.	1.6	2
149	Entropy change-induced elastic softening of lithiated materials. <i>Theoretical and Applied Mechanics Letters</i> , 2015, 5, 255-257.	2.8	3
150	Photocatalytic activity of Ag nanoparticle-dispersed N-TiO ₂ nanofilms prepared by magnetron sputtering. <i>RSC Advances</i> , 2015, 5, 57155-57163.	3.6	21
151	Fabrication of asymmetric-gradient-concentric ring patterns via evaporation of droplets of PMMA solution at different substrate temperatures. <i>RSC Advances</i> , 2015, 5, 29850-29858.	3.6	2
152	Dynamics of the Evaporative Dewetting of a Volatile Liquid Film Confined within a Circular Ring. <i>Langmuir</i> , 2015, 31, 4024-4031.	3.5	9
153	Cooling-induced formation of honeycomb patterns on pre-cast PMMA films at low temperatures. <i>RSC Advances</i> , 2015, 5, 60496-60505.	3.6	0
154	Effect of plastic deformation on nonlinear ultrasonic response of austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 622, 146-152.	5.6	41
155	Effect of Electric Current on Trijunction Equilibrium and Grain Rotation of Lossy Dielectrics. <i>Journal of Electronic Materials</i> , 2014, 43, 4497-4501.	2.2	1
156	Finite element analysis of the cyclic indentation of bilayer enamel. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 175401.	2.8	5
157	Indentation-Induced Interface Decohesion Between a Piezoelectric Film and an Elastic Substrate. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 1863-1873.	0.4	18
158	Field effect on digestive ripening of thiol-capped gold nanoparticles. <i>Journal of Applied Physics</i> , 2014, 115, 054312.	2.5	5
159	Biomechanical Properties of Hemlocks: A Novel Approach to Evaluating Physical Barriers of the Plant-Insect Interface and Resistance to a Phloem-Feeding Herbivore. <i>Insects</i> , 2014, 5, 364-376.	2.2	2
160	Methanol desorption in poly(methyl methacrylate) with stress distributions. <i>Journal of Materials Research</i> , 2014, 29, 2162-2169.	2.6	4
161	Formation of Self-Organized Gradient Stripes on Precast Poly(methyl methacrylate) Films. <i>Langmuir</i> , 2014, 30, 6548-6555.	3.5	10
162	Effect of DC current on tensile creep of pure tin. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 591, 97-104.	5.6	34

#	ARTICLE	IF	CITATIONS
163	A simple model for diffusion-induced dislocations during the lithiation of crystalline materials. Theoretical and Applied Mechanics Letters, 2014, 4, 051001.	2.8	3
164	Analysis of Electrowetting of a Conducting Droplet on a Dielectric Layer. Journal of Physical Chemistry C, 2014, 118, 26859-26865.	3.1	7
165	Formation of well-ordered finger-like structures on pre-cast thin films. RSC Advances, 2014, 4, 45535-45539.	3.6	1
166	Comment on "Effects of dislocation mechanics on diffusion-induced stresses within a spherical insertion particle electrode" by P. Wei, J. Zhou, X. Pang, H. Liu, K. Deng, G. Wang, Y. Wu and B. Chen, J. Mater. Chem. A, 2014, 2, 1128. Journal of Materials Chemistry A, 2014, , .	10.3	2
167	Evaporation-induced formation of self-organized gradient concentric rings on sub-micron pre-cast PMMA films. Soft Matter, 2014, 10, 4451.	2.7	19
168	Molecular kinetic theory of boundary slip on textured surfaces by molecular dynamics simulations. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2152-2160.	5.1	11
169	Finite element analysis of depth effect on measuring elastic modulus of a core-shell structure for application of instrumented indentation in tooth enamel. Materials Science and Engineering C, 2014, 37, 84-89.	7.3	1
170	Self-Organization of Unconventional Gradient Concentric Rings on Precast PMMA Films. Journal of Physical Chemistry C, 2014, 118, 10177-10182.	3.1	15
171	Effect of the Heat Treatment on the Cube Recrystallization Texture of Al-Mn-Mg Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2857-2868.	2.2	8
172	Analysis of the effect of a compliant layer on indentation of an elastic material. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 25, 33-40.	3.1	7
173	Effect of diffusion-induced bending on diffusion-induced stress near the end faces of an elastic hollow cylinder. Mechanics Research Communications, 2013, 51, 72-77.	1.8	14
174	Non-linear ultrasonic response of plastically deformed aluminium alloy AA 7009. Materials Science and Technology, 2013, 29, 1304-1309.	1.6	12
175	Insertion-induced expansion of a thin film on a rigid substrate. Journal of Power Sources, 2013, 241, 146-149.	7.8	23
176	Electromechanical responses of Cu strips. Journal of Applied Physics, 2013, 113, .	2.5	7
177	Boussinesq contact of transversely isotropic piezoelectric materials. International Journal of Applied Electromagnetics and Mechanics, 2013, 43, 347-352.	0.6	1
178	On electric conduction of amorphous silicon carbonitride derived from a polymeric precursor. Applied Physics Letters, 2013, 102, .	3.3	51
179	Effect of interlayer deformation on blister test. Journal of Adhesion Science and Technology, 2013, 27, 2676-2685.	2.6	1
180	Stress-assisted formation of surface gratings on polymer films. Polymer Engineering and Science, 2013, 53, 1454-1462.	3.1	2

#	ARTICLE	IF	CITATIONS
181	Finite Element Analysis of the Indentation-Induced Delamination of Bi-Layer Structures. Journal of Computational and Theoretical Nanoscience, 2012, 9, 851-858.	0.4	18
182	Effect of electromigration on diffusional creep in polycrystalline materials. International Journal of Applied Electromagnetics and Mechanics, 2012, 40, 165-171.	0.6	8
183	Effect of alternating electric current on the nanoindentation of copper. Applied Physics A: Materials Science and Processing, 2012, 109, 553-559.	2.3	4
184	Mechanical behaviours of workhardening and worksoftening bulk metallic glasses. Materials Science and Technology, 2012, 28, 249-255.	1.6	4
185	Potentiostatic Intermittent Titration Technique for Electrodes Governed by Diffusion and Interfacial Reaction. Journal of Physical Chemistry C, 2012, 116, 1472-1478.	3.1	119
186	Effect of Surface Viscosity on the Vibration of Microcantilevers. Langmuir, 2012, 28, 3449-3452.	3.5	6
187	Aligned TiO ₂ Nanotube Arrays As Durable Lithium-Ion Battery Negative Electrodes. Journal of Physical Chemistry C, 2012, 116, 18669-18677.	3.1	111
188	Electrothermal stress in conducting particulate composites. Journal of Materials Science, 2012, 47, 6226-6236.	3.7	1
189	Diffusion-induced stress in inhomogeneous materials: concentration-dependent elastic modulus. Science China: Physics, Mechanics and Astronomy, 2012, 55, 955-962.	5.1	43
190	Fracture-induced formation of semi-concentric patterns on polymeric films. Materials Chemistry and Physics, 2012, 135, 168-173.	4.0	10
191	Finite-Element Analysis of Current-Induced Thermal Stress in a Conducting Sphere. Journal of Electronic Materials, 2012, 41, 352-361.	2.2	5
192	Crack Pattern Formation in Thin Film Lithium-Ion Battery Electrodes. Journal of the Electrochemical Society, 2011, 158, A689.	2.9	242
193	Optimum Thickness of Sn Film for Whisker Growth. Journal of Electronic Materials, 2011, 40, 2069-2075.	2.2	18
194	Criterion for insertion-induced microcracking and debonding of thin films. Journal of Power Sources, 2011, 196, 465-469.	7.8	48
195	Whisker formation on a thin film tin lithium-ion battery anode. Journal of Power Sources, 2011, 196, 1474-1477.	7.8	25
196	Size effect on the coalescence-induced self-propelled droplet. Applied Physics Letters, 2011, 98, .	3.3	210
197	Adhesive Contact Between a Rigid Axisymmetric Indenter and a neo-Hookean Solid. Journal of Adhesion, 2011, 87, 180-193.	3.0	3
198	Effect of DC Current on the Creep Deformation of Tin. Journal of Electronic Materials, 2010, 39, 2611-2617.	2.2	19

#	ARTICLE	IF	CITATIONS
199	Study of the Impact Performance of Solder Joints by High-Velocity Impact Tests. Journal of Electronic Materials, 2010, 39, 2536-2543.	2.2	7
200	Impression creep of PMMA resin at elevated temperatures. Polymer Engineering and Science, 2010, 50, 209-213.	3.1	7
201	Stress-assisted-electrochemical corrosion of Cu-based bulk metallic glass. Journal of Materials Research, 2010, 25, 592-597.	2.6	2
202	Effect of local solid reaction on diffusion-induced stress. Journal of Applied Physics, 2010, 107, .	2.5	66
203	Insertion-induced breakage of materials. Journal of Applied Physics, 2010, 108, .	2.5	28
204	Stress analysis of the field-assisted sintering: Electrothermal mechanical interaction. International Journal of Applied Electromagnetics and Mechanics, 2010, 32, 125-132.	0.6	6
205	Indentation behavior of a ZCAP-3 bulk metallic glass: Effects of the fatigue deformation. Journal of Materials Research, 2009, 24, 2346-2352.	2.6	4
206	Obtaining shear relaxation modulus and creep compliance of linear viscoelastic materials from instrumented indentation using axisymmetric indenters of power-law profiles. Journal of Materials Research, 2009, 24, 3013-3017.	2.6	34
207	Influence of inulin/oligofructose on the acid-induced cold aggregation and gelation of preheated soy proteins. Journal of the Science of Food and Agriculture, 2009, 89, 2650-2658.	3.5	10
208	Dissolution of bioactive glasses: The effects of crystallinity coupled with stress. Jom, 2009, 61, 45-51.	1.9	21
209	Effect of interface stresses on the elastic deformation of an elastic half-plane containing an elastic inclusion. International Journal of Solids and Structures, 2009, 46, 2897-2906.	2.7	32
210	Local surface damage and material dissolution in 45S5 bioactive glass: Effect of the contact deformation. Journal of Non-Crystalline Solids, 2009, 355, 874-879.	3.1	9
211	SLIP BOUNDARY CONDITION FOR VISCOUS FLOW OVER SOLID SURFACES. Chemical Engineering Communications, 2009, 197, 544-550.	2.6	51
212	Revisit of the two-dimensional indentation deformation of an elastic half-space. Journal of Materials Research, 2009, 24, 1976-1982.	2.6	7
213	Finite element analysis of deep indentation by a spherical indenter. Journal of Materials Science, 2008, 43, 6331-6336.	3.7	11
214	Can Whiskers Grow on Bulk Lead-Free Solder?. Journal of Electronic Materials, 2008, 37, 90-95.	2.2	8
215	Making Nanostructured Ceramics from Micrometer-Sized Powders via Grain Refinement During SPS Sintering. Journal of the American Ceramic Society, 2008, 91, 2475-2480.	3.8	20
216	Microindentation of titanium: Dependence of plastic energy on the indentation depth and time-dependent plastic deformation. Journal of Materials Research, 2008, 23, 1068-1075.	2.6	6

#	ARTICLE	IF	CITATIONS
217	Surface Wrinkling of an Elastic Film: Effect of Residual Surface Stress. <i>Langmuir</i> , 2008, 24, 13627-13631.	3.5	28
218	Impression creep of a Sn60Pb40 alloy: the effect of electric current. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 155406.	2.8	25
219	Indentation-induced tin whiskers on electroplated tin coatings. <i>Journal of Applied Physics</i> , 2008, 104, 113512.	2.5	21
220	Analysis of the axisymmetric indentation of a semi-infinite piezoelectric material: The evaluation of the contact stiffness and the effective piezoelectric constant. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	36
221	Morphological instability of a stressed elastic conducting cylinder “ effect of magnetomechanical interaction. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2008, 27, 9-24.	0.6	5
222	Analysis of the lattice diffusion-controlled growth of metallic whiskers. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4034-4038.	2.8	6
223	Flow behavior of an Eyring fluid in a nanotube: The effect of the slip boundary condition. <i>Applied Physics Letters</i> , 2007, 90, 133105.	3.3	22
224	Cyclic indentation in aluminum. <i>Journal of Materials Science</i> , 2007, 42, 4513-4520.	3.7	18
225	Hardness variation across a Zr57Ti5Cu20Ni8Al10 bulk metallic glass. <i>Journal of Materials Science</i> , 2007, 42, 2208-2211.	3.7	7
226	Effect of interfacial stresses on the elastic behavior of nanocomposite materials. <i>Journal of Applied Physics</i> , 2006, 99, 054306.	2.5	37
227	Phonon-energy-coupling enhancement: Strengthening the chemical bonds of the SiO2-Si system. <i>Applied Physics Letters</i> , 2006, 88, 082905.	3.3	18
228	Cyclic indentation of an elastic-perfectly plastic material. <i>Journal of Materials Science</i> , 2006, 41, 6077-6080.	3.7	9
229	Deformation behavior of tin and some tin alloys. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 18, 191-210.	2.2	53
230	EFFECT OF VISCOUS LIQUID FILM ON DYNAMIC CONTACT IN ATOMIC FORCE MICROSCOPY. <i>Biophysical Reviews and Letters</i> , 2006, 01, 97-106.	0.8	1
231	Effect of adhesion energy on the contact stiffness in nanoindentation. <i>Journal of Materials Research</i> , 2006, 21, 2683-2688.	2.6	20
232	Impression stress relaxation of Sn3.5Ag eutectic alloy. <i>Journal of Materials Research</i> , 2006, 21, 2653-2659.	2.6	11
233	Impression creep of a Mg-8Zn-4Al-0.5Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 410-411, 42-47.	5.6	46
234	Surface evolution of crystalline tubes “ effect of lattice diffusion. <i>Thin Solid Films</i> , 2005, 474, 285-293.	1.8	6

#	ARTICLE	IF	CITATIONS
235	Interaction between diffusion and chemical stresses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 409, 153-159.	5.6	208
236	Effect of cold rolling on the indentation deformation of AA6061 aluminum alloy. <i>Journal of Materials Research</i> , 2005, 20, 1172-1179.	2.6	14
237	Influence of electromechanical interaction on the morphological instability of an elastic conducting halfspace. <i>Physical Review B</i> , 2005, 72, .	3.2	11
238	Morphological instability of elastic thin films—effect of electromechanical interaction. <i>Applied Physics Letters</i> , 2005, 87, 111912.	3.3	14
239	Size-dependent effective modulus of elastic composite materials: Spherical nanocavities at dilute concentrations. <i>Journal of Applied Physics</i> , 2004, 95, 3516-3520.	2.5	162
240	Micro-Indentation of Aluminum Processed by Equal Channel Angular Extrusion. <i>Journal of Materials Research</i> , 2004, 19, 1243-1248.	2.6	16
241	Electromechanical interaction of linear piezoelectric materials with a surface electrode. <i>Journal of Materials Science</i> , 2004, 39, 2811-2820.	3.7	22
242	Microindentation of aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3323-3328.	2.2	37
243	Contact stiffness of initially stressed neo-Hookean solids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2513-2521.	2.1	10
244	Surface instability of an annular thin film. <i>Thin Solid Films</i> , 2004, 446, 313-317.	1.8	5
245	Growth of TiO ₂ nanorods by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2003, 256, 83-88.	1.5	219
246	Thickness effect on the indentation of an elastic layer. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 358, 226-232.	5.6	72
247	Dependence of normal contact stress on the surface morphology of solid surfaces. <i>Philosophical Magazine Letters</i> , 2003, 83, 185-193.	1.2	0
248	Hydrogen-induced silicon wafer splitting. <i>Journal of Applied Physics</i> , 2003, 94, 1454-1457.	2.5	14
249	Diffusion-induced beam bending in hydrogen sensors. <i>Journal of Applied Physics</i> , 2003, 93, 9304-9309.	2.5	51
250	Electromechanical instability of microscale structures. <i>Journal of Applied Physics</i> , 2002, 92, 2789-2794.	2.5	35
251	Effect of adsorption on nanoindentation test. <i>Applied Physics Letters</i> , 2002, 80, 959-961.	3.3	13
252	Adhesion of a Rigid Punch to an Incompressible Elastic Film. <i>Langmuir</i> , 2001, 17, 6524-6529.	3.5	48

#	ARTICLE	IF	CITATIONS
253	Indentation of an incompressible elastic film. <i>Mechanics of Materials</i> , 1998, 30, 275-286.	3.2	56
254	Creep due to grain boundary diffusion and grain boundary viscous flow. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 286-288.	2.8	10
255	Impression creep of a viscous fluid. <i>Journal of Applied Physics</i> , 1997, 81, 7751-7756.	2.5	4
256	Dislocation model of a subsurface crack. <i>Journal of Applied Physics</i> , 1997, 82, 4816-4822.	2.5	5
257	Impression recovery of PMMA. <i>Journal of Materials Research</i> , 1997, 12, 2809-2814.	2.6	12
258	Squeezing Flow of an Eyring Fluid. <i>Journal of Tribology</i> , 1997, 119, 593-596.	1.9	3
259	Aggregation of dielectric particles in electrorheological fluids. <i>Journal of Materials Science Letters</i> , 1997, 16, 1525-1526.	0.5	0
260	Impression recovery of amorphous polymers. <i>Journal of Electronic Materials</i> , 1997, 26, 859-862.	2.2	20
261	Viscosity measurement of polycarbonate by using a penetration viscometer. <i>Polymer Engineering and Science</i> , 1997, 37, 101-104.	3.1	18
262	Finite element analysis of a subsurface crack. <i>International Journal of Fracture</i> , 1996, 77, 337-350.	2.2	3
263	New Fick's law for self-diffusion in liquids. <i>Journal of Applied Physics</i> , 1996, 80, 6188-6191.	2.5	8
264	Impression and diffusional creep of anisotropic media. <i>Journal of Applied Physics</i> , 1995, 77, 110-117.	2.5	13
265	Comments on a model for nano-indentation creep. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 139-144.	1.0	10
266	Impression Creep of a Sn-Pb Eutectic Alloy. <i>Materials Research Society Symposia Proceedings</i> , 1994, 362, 19.	0.1	3
267	Impression creep of a thin film by vacancy diffusion. II. Cylindrical punch. <i>Journal of Applied Physics</i> , 1993, 74, 4390-4397.	2.5	23
268	Impression creep of a thin film by vacancy diffusion. I. Straight punch. <i>Journal of Applied Physics</i> , 1993, 74, 4382-4389.	2.5	21
269	A Gruneisen Relation on Constant-Pressure Lines. <i>Journal of the American Ceramic Society</i> , 1992, 75, 3341-3345.	3.8	5
270	Membrane modeling of pull-in instability in MEMS sensors and actuators. , 0, , .		2