

Said Ahzi

List of Publications by Year in descending order

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246
papers

8,755
citations

46918

47
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53109

85
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261
all docs

261
docs citations

261
times ranked

6788
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on the Modeling of the Elastic Modulus and Yield Stress of Polymers and Polymer Nanocomposites: Effect of Temperature, Loading Rate and Porosity. <i>Polymers</i> , 2022, 14, 360.	2.0	16
2	Application of machine learning methods on dynamic strength analysis for additive manufactured polypropylene-based composites. <i>Polymer Testing</i> , 2022, 110, 107580.	2.3	25
3	Investigation on dynamic strength of <sc>3D</sc>-printed continuous ramie fiber reinforced biocomposites at various strain rates using machine learning methods. <i>Polymer Composites</i> , 2022, 43, 5235-5249.	2.3	13
4	A generalized mechanical model using stress-strain duality at large strain for amorphous polymers. <i>Mathematics and Mechanics of Solids</i> , 2021, 26, 386-400.	1.5	3
5	Compressive behaviors of 3D printed polypropylene-based composites at low and high strain rates. <i>Polymer Testing</i> , 2021, 103, 107321.	2.3	27
6	Numerical analysis of the reliability of photovoltaic modules based on the fatigue life of the copper interconnects. <i>Solar Energy</i> , 2020, 212, 152-168.	2.9	15
7	Understanding the Nature of Capacity Decay and Interface Properties in Li/LiNi _{0.5} Mn _{1.5} O ₄ Cells by Cycling Aging and Titration Techniques. <i>ACS Applied Energy Materials</i> , 2020, 3, 6400-6407.	2.5	10
8	An inverse method predicting thermal fluxes in nuclear waste glass canisters during vitrification and cooling. <i>Nuclear Engineering and Design</i> , 2020, 364, 110686.	0.8	6
9	An Optimal Air-Conditioner On-Off Control Scheme under Extremely Hot Weather Conditions. <i>Energies</i> , 2020, 13, 1021.	1.6	19
10	Efficient oil/saltwater separation using a highly permeable and fouling-resistant all-inorganic nanocomposite membrane. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15488-15497.	2.7	16
11	Modeling the mechanical response of polymers and <sc>nano-filled</sc> polymers: Effects of porosity and fillers content. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49545.	1.3	6
12	Identification of the dynamic behavior of epoxy material at large strain over a wide range of temperatures. <i>Mechanics of Materials</i> , 2020, 143, 103323.	1.7	5
13	Constitutive Modeling of the Tensile Behavior of Recycled Polypropylene-Based Composites. <i>Materials</i> , 2019, 12, 2419.	1.3	3
14	Thermodynamic assessment of an integrated renewable energy multigeneration system including ammonia as hydrogen carrier and phase change material energy storage. <i>Energy Conversion and Management</i> , 2019, 198, 111809.	4.4	35
15	A thermodynamic analysis of Argon's yield stress model: Extended influence of strain rate and temperature. <i>Mechanics of Materials</i> , 2019, 130, 20-28.	1.7	12
16	Effect of physical and environmental factors on the performance of a photovoltaic panel. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109948.	3.0	31
17	Adsorption of phosphate on iron oxide doped halloysite nanotubes. <i>Scientific Reports</i> , 2019, 9, 3232.	1.6	99
18	High-Power Load Management for Residential House under Desert Climate Conditions - A Case Study in Qatar. , 2019, , .		2

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19	Modeling and Simulation of the Longtime Behavior and Fatigue Failure of Photovoltaic Modules under Desert Environment. , 2019, , .		0
20	Photovoltaic Dust Soiling Statistical Representation in Doha, Qatar. , 2019, , .		0
21	Flexure Behaviors of ABS-based Composites Containing Carbon and Kevlar Fibers by Material Extrusion 3D Printing. Polymers, 2019, 11, 1878.	2.0	56
22	Synergistic reinforcement of polyamide-based composites by combination of short and continuous carbon fibers via fused filament fabrication. Composite Structures, 2019, 207, 232-239.	3.1	83
23	An adaptive modelling technique for parameters extraction of photovoltaic devices under varying sunlight and temperature conditions. Applied Energy, 2019, 236, 728-742.	5.1	41
24	Dominant environmental parameters for dust deposition and resuspension in desert climates. Aerosol Science and Technology, 2018, 52, 788-798.	1.5	52
25	An Efficient ELLAM Implementation for Modeling Solute Transport in Fractured Porous Media. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	6
26	Effects of Short-Term Mechanical Loads on the Cracking of Glass Tubes in a 500-m-Deep Rock Formation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	3
27	Asymmetric rolling of interstitial free steel sheets: Microstructural evolution and mechanical properties. Journal of Manufacturing Processes, 2018, 31, 583-592.	2.8	31
28	A fully transient novel thermal model for in-field photovoltaic modules using developed explicit and implicit finite difference schemes. Journal of Computational Science, 2018, 27, 357-369.	1.5	13
29	Two-dimensional finite difference-based model for coupled irradiation and heat transfer in photovoltaic modules. Solar Energy Materials and Solar Cells, 2018, 180, 289-302.	3.0	33
30	Multi-physics modeling and simulation of heat and electrical yield generation in photovoltaics. Solar Energy Materials and Solar Cells, 2018, 180, 358-372.	3.0	13
31	High performance hydroxyiron modified montmorillonite nanoclay adsorbent for arsenite removal. Chemical Engineering Journal, 2018, 335, 1-12.	6.6	87
32	A composite approach for modeling deformation behaviors of thermoplastic polyurethane considering soft-hard domains transformation. International Journal of Material Forming, 2018, 11, 381-388.	0.9	5
33	Investigation of factors affecting condensation on soiled PV modules. Solar Energy, 2018, 159, 488-500.	2.9	92
34	Air-Conditioner On-Off optimization Control under Variant Ambient Condition. , 2018, , .		2
35	Using energy balance method to study the thermal behavior of PV panels under time-varying field conditions. Energy Conversion and Management, 2018, 175, 246-262.	4.4	52
36	Cooperative-VBO model for polymer/graphene nanocomposites. Mechanics of Materials, 2018, 125, 1-13.	1.7	15

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37	Multiscale description and prediction of the thermomechanical behavior of multilayered plasticized PVC under a wide range of strain rate. Journal of Materials Science, 2018, 53, 14834-14849.	1.7	15
38	Groundwater recharge estimation and its spatial distribution in arid regions using GIS: a case study from Qatar karst aquifer. Modeling Earth Systems and Environment, 2018, 4, 1319-1329.	1.9	23
39	Irradiance, thermal and electrical coupled modeling of photovoltaic panels with long-term simulation periods under service in harsh desert conditions. Journal of Computational Science, 2018, 27, 118-129.	1.5	9
40	A new ELLAM implementation for modeling solute transport in fractured porous media. , 2018, , .		0
41	Renewable biocomposites based on cellulose fibers and dimer fatty acid polyamide: Experiments and modeling of the stress-strain behavior. Polymer Engineering and Science, 2017, 57, 95-104.	1.5	11
42	Flat borophene films as anode materials for Mg, Na or Li-ion batteries with ultra high capacities: A first-principles study. Applied Materials Today, 2017, 8, 60-67.	2.3	122
43	Review of PV soiling particle mechanics in desert environments. Renewable and Sustainable Energy Reviews, 2017, 76, 872-881.	8.2	126
44	A windable and stretchable three-dimensional all-inorganic membrane for efficient oil/water separation. Scientific Reports, 2017, 7, 16081.	1.6	18
45	Dynamic Characterization and Modeling of Ductile Failure of Sintered Aluminum Alloy through Shear-compression Tests. Procedia Engineering, 2017, 197, 69-78.	1.2	3
46	Numerical implementation of an elastic-viscoplastic constitutive model to simulate the mechanical behaviour of amorphous polymers. International Journal of Material Forming, 2017, 10, 607-621.	0.9	10
47	Finite element simulations of temperature distribution and of densification of a titanium powder during metal laser sintering. Additive Manufacturing, 2017, 13, 37-48.	1.7	20
48	Thermomechanical Investigation of PV Panels Behaviour under NOCT Conditions. , 2017, , .		0
49	Modeling of the Influence of Dust Soiling on Photovoltaic Panels for Desert Applications The Example of the Solar Test Facility at Doha, Qatar. , 2017, , .		2
50	New Developments in the Modeling and Simulations of the Thermal Behavior and Electrical Yield of Photovoltaics Panels With the Consideration of Desert Environmental Conditions. , 2017, , .		0
51	A Three-Dimensional Finite Element Based Dynamic Thermal Model of PV Modules with an Improved Thermal Network. , 2017, , .		5
52	Application of the Crystallo-Calorific Hardening approach to the constitutive modeling of the dynamic yield behavior of various metals with different crystalline structures. International Journal of Impact Engineering, 2017, 109, 52-66.	2.4	1
53	Modeling and numerical simulation of selective laser sintering. , 2016, , .		1
54	Effect of straining graphene on nanopore creation using Si cluster bombardment: A reactive atomistic investigation. Journal of Applied Physics, 2016, 120, .	1.1	15

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55	Mitigating the effect of heat and dust to enhance solar panels efficiency. , 2016, , .		4
56	Multi-physics modelling of PV panels: A computational analysis of heat generation. , 2016, , .		0
57	Review of PV soiling measurement methods. , 2016, , .		17
58	Field-scale Computational Fluid Dynamics applied to wind velocity profiles of photovoltaic plant: Case of the QEERI solar test facility, Doha, Qatar. , 2016, , .		1
59	Numerical simulation of photovoltaic panel thermal condition under wind convection. , 2016, , .		1
60	Elastic and yield behaviors of recycled polypropylene-based composites: Experimental and modeling study. Composites Part B: Engineering, 2016, 99, 132-153.	5.9	15
61	Towards thermal fatigue modeling of photovoltaic panels under the gulf region harsh atmospheric conditions. , 2016, , .		2
62	A computational analysis of coupled thermal and electrical behavior of PV panels. Solar Energy Materials and Solar Cells, 2016, 148, 73-86.	3.0	59
63	Quasistatic to Dynamic Behavior of Particulate Composites for Different Temperatures. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 81-86.	0.3	0
64	PV panel single and double diode models: Optimization of the parameters and temperature dependence. Solar Energy Materials and Solar Cells, 2016, 148, 87-98.	3.0	78
65	Complex band structures of transition metal dichalcogenide monolayers with spin-orbit coupling effects. Journal of Physics Condensed Matter, 2016, 28, 355301.	0.7	7
66	Novel dry cleaning machine for photovoltaic and solar panels. , 2015, , .		17
67	Numerical simulation of large deformations of amorphous polymer with finite element method: Application to normal impact test. EPJ Web of Conferences, 2015, 94, 04043.	0.1	2
68	Impact behaviour of an innovative plasticized poly(vinyl chloride) for the automotive industry. EPJ Web of Conferences, 2015, 94, 02013.	0.1	2
69	Extraction of polymer stress-strain behavior in the presence of self-heating by the use of a simple model for the elastic-plastic deformation. Polymer Engineering and Science, 2015, 55, 2474-2481.	1.5	2
70	Dynamic mechanical characterization and modelling of polypropylene based organoclay nanocomposite. EPJ Web of Conferences, 2015, 94, 02025.	0.1	0
71	Assessing the three-dimensional collagen network in soft tissues using contrast agents and high resolution micro-CT: Application to porcine iliac veins. Comptes Rendus - Biologies, 2015, 338, 425-433.	0.1	32
72	Analysis of shear deformation by slip and twinning in low and high/medium stacking fault energy fcc metals using the $\dot{\epsilon}$-model. International Journal of Plasticity, 2015, 68, 132-149.	4.1	12

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73	Evolution of the three-dimensional collagen structure in vascular walls during deformation: an in situ mechanical testing under multiphoton microscopy observation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 693-702.	1.4	7
74	An interfacial debonding-induced damage model for graphite nanoplatelet polymer composites. <i>Computational Materials Science</i> , 2015, 96, 191-199.	1.4	46
75	Thermal Analysis of Solar Panels. , 2015, , 441-450.		1
76	Simulation of Solidification, Relaxation and Long-Term Behavior of a Borosilicate Glass. , 2015, , 511-519.		1
77	Sensibilit�� la vitesse des composites particuliers � base de polypropyl�ne. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2015, 25, 131-144.	0.2	0
78	An optimum approximation of n-point correlation functions of random heterogeneous material systems. <i>Journal of Chemical Physics</i> , 2014, 140, 074905.	1.2	16
79	A PSO algorithm for the calculation of the series and shunt resistances of the PV panel one-diode model. , 2014, , .		5
80	Asymmetric rolling of thin AA-5182 sheets: Modelling and experiments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 603, 150-159.	2.6	39
81	Simulation of cooling and solidification of three-dimensional bulk borosilicate glass: effect of structural relaxations. <i>Mechanics of Time-Dependent Materials</i> , 2014, 18, 81-96.	2.3	11
82	Rate mechanism and dislocation generation in high density polyethylene and other semicrystalline polymers. <i>Polymer</i> , 2014, 55, 1217-1222.	1.8	13
83	Modeling of deformation behavior and texture evolution in magnesium alloy using the intermediate �-model. <i>International Journal of Plasticity</i> , 2014, 52, 77-94.	4.1	20
84	Impact response of recycled polypropylene-based composites under a wide range of temperature: Effect of filler content and recycling. <i>Composites Science and Technology</i> , 2014, 95, 89-99.	3.8	49
85	Effects of morphology and geometry of inclusions on two-point correlation statistics in two phase composites. <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , 2014, 3, 1.	0.5	5
86	Investigation of the human bridging veins structure using optical microscopy. <i>Surgical and Radiologic Anatomy</i> , 2013, 35, 331-337.	0.6	13
87	Interphase effect on the elastic and thermal conductivity response of polymer nanocomposite materials: 3D finite element study. <i>Computational Materials Science</i> , 2013, 69, 100-106.	1.4	145
88	Thermal conductivity and tensile response of defective graphene: A molecular dynamics study. <i>Carbon</i> , 2013, 63, 460-470.	5.4	229
89	A new multiscale model for the mechanical behavior of vein walls. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 23, 32-43.	1.5	14
90	Effects of homogenization technique and introduction of interfaces in a multiscale approach to predict the elastic properties of arthropod cuticle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 23, 103-116.	1.5	4

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91	Micromechanical modeling of the elastic behavior of polypropylene based organoclay nanocomposites under a wide range of temperatures and strain rates/frequencies. <i>Mechanics of Materials</i> , 2013, 64, 56-68.	1.7	26
92	Yield asymmetry design of magnesium alloys by integrated computational materials engineering. <i>Computational Materials Science</i> , 2013, 79, 448-455.	1.4	17
93	Experimental and multiscale modeling of thermal conductivity and elastic properties of PLA/expanded graphite polymer nanocomposites. <i>Thermochimica Acta</i> , 2013, 552, 106-113.	1.2	74
94	A new smoothed particle hydrodynamics non-Newtonian model for friction stir welding: Process modeling and simulation of microstructure evolution in a magnesium alloy. <i>International Journal of Plasticity</i> , 2013, 48, 189-204.	4.1	102
95	Coupled effects of the lattice rotation definition, twinning and interaction strength on the FCC rolling texture evolution using the viscoplastic $\dot{\epsilon}$ -model. <i>International Journal of Plasticity</i> , 2013, 46, 23-36.	4.1	17
96	Combined molecular dynamics-finite element multiscale modeling of thermal conduction in graphene epoxy nanocomposites. <i>Carbon</i> , 2013, 60, 356-365.	5.4	133
97	Effect of talc content on the degradation of re-extruded polypropylene/talc composites. <i>Polymer Degradation and Stability</i> , 2013, 98, 1275-1286.	2.7	79
98	Modeling of two-phase random composite materials by finite element, Mori-Tanaka and strong contrast methods. <i>Composites Part B: Engineering</i> , 2013, 45, 1117-1125.	5.9	140
99	Hyperelastic characterization of the interlamellar domain and interphase layer in semicrystalline polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1692-1704.	2.4	5
100	Micromechanical characterization of the interphase layer in semi-crystalline polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1228-1243.	2.4	21
101	Dynamic composition determination in heterogeneous ensembles using angular autocorrelation functions as signatures. <i>Applied Physics Letters</i> , 2013, 102, 223701.	1.5	0
102	Cooperative viscoplasticity theory based on the overstress approach for modeling large deformation behavior of amorphous polymers. <i>Polymer International</i> , 2013, 62, 1560-1565.	1.6	10
103	Qualitative Equivalence Between Electrical Percolation Threshold and Effective Thermal Conductivity in Polymer/Carbon Nanocomposites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	2
104	Dynamic Compressive Behavior of a Melt Mixed Polypropylene/Organoclay Nanocomposites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	23
105	Modeling and Simulation of the Cooling Process of Borosilicate Glass. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	17
106	Microstructure design of UHMWPE-based materials: blending with graphite nanoplatelets. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 31, 012009.	0.3	3
107	Atomistic-Continuum Modeling of the Mechanical Properties of Silica/Epoxy Nanocomposite. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012, 134, .	0.8	8
108	Towards Building a Multiscale Mechanical Model for the Prediction of Acute Subdural Hematomas. , 2012, , .		3

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109	Bridging Microstructure, Properties, and Processing of Polymer Based Advanced Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	0
110	An asymptotic method for the prediction of the anisotropic effective elastic properties of the cortical vein: superior sagittal sinus junction embedded within a homogenized cell element. Journal of Mechanics of Materials and Structures, 2012, 7, 593-611.	0.4	9
111	Improving diamond coating on Ti6Al4V substrate using a diamond like carbon interlayer: Raman residual stress evaluation and AFM analyses. Diamond and Related Materials, 2012, 22, 105-112.	1.8	30
112	Analysis of thermomechanical reprocessing effects on polypropylene/ethylene octene copolymer blends. Polymer Degradation and Stability, 2012, 97, 1475-1484.	2.7	61
113	Molecular dynamics study on the thermal conductivity and mechanical properties of boron doped graphene. Solid State Communications, 2012, 152, 1503-1507.	0.9	89
114	A statistical approach for the evaluation of mechanical properties of silica/epoxy nanocomposite: Verification by experiments. Computational Materials Science, 2012, 59, 108-113.	1.4	16
115	Three-dimensional reconstruction and homogenization of heterogeneous materials using statistical correlation functions and FEM. Computational Materials Science, 2012, 51, 372-379.	1.4	41
116	Thickness and chirality effects on tensile behavior of few-layer graphene by molecular dynamics simulations. Computational Materials Science, 2012, 53, 298-302.	1.4	70
117	Impact of microextrusion and addition of graphite nanoplatelets on bulk and surface mechanical properties of UHMWPE. Journal of Applied Polymer Science, 2012, 125, 4316-4325.	1.3	5
118	A constitutive model for stress-strain response and mullins effect in filled elastomers. Journal of Applied Polymer Science, 2012, 125, 4368-4375.	1.3	13
119	Recycling effects on the rheological and thermomechanical properties of polypropylene-based composites. Materials & Design, 2012, 33, 451-458.	5.1	87
120	Experimental investigation and micromechanical modeling of high strain rate compressive yield stress of a melt mixing polypropylene organoclay nanocomposites. Mechanics of Materials, 2012, 52, 58-68.	1.7	43
121	Composition of two-point correlation functions of subcomposites in heterogeneous materials. Mechanics of Materials, 2012, 51, 88-96.	1.7	16
122	Nitrogen doping and curvature effects on thermal conductivity of graphene: A non-equilibrium molecular dynamics study. Solid State Communications, 2012, 152, 261-264.	0.9	97
123	Nitrogen doping and vacancy effects on the mechanical properties of graphene: A molecular dynamics study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1146-1153.	0.9	79
124	Electro-hydraulic forming of sheet metals: Free-forming vs. conical-die forming. Journal of Materials Processing Technology, 2012, 212, 1070-1079.	3.1	47
125	New approximate solution for N-point correlation functions for heterogeneous materials. Journal of the Mechanics and Physics of Solids, 2012, 60, 104-119.	2.3	37
126	On the Ability of Structural and Phenomenological Hyperelastic Models to Predict the Mechanical Behavior of Biological Tissues Submitted to Multiaxial Loadings. , 2012, , .		2

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127	Dynamic Mechanical Properties of PMMA/Organoclay Nanocomposite: Experiments and Modeling. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	0.8	15
128	Incorporation of electron tunnelling phenomenon into 3D Monte Carlo simulation of electrical percolation in graphite nanoplatelet composites. Journal Physics D: Applied Physics, 2011, 44, 455306.	1.3	18
129	Evaluating the Effect of Mechanical Loading on the Electrical Percolation Threshold of Carbon Nanotube Reinforced Polymers: A 3D Monte-Carlo Study. Journal of Computational and Theoretical Nanoscience, 2011, 8, 2087-2099.	0.4	13
130	Multiphysics Approaches for the Behavior of Polymer-Based Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	0.8	0
131	Mechanical and thermal behavior of nanoclay based polymer nanocomposites using statistical homogenization approach. Composites Science and Technology, 2011, 71, 1930-1935.	3.8	41
132	Microstructural effects on yield surface evolution in cubic metals using the viscoplastic $\dot{\epsilon}$ -model. International Journal of Plasticity, 2011, 27, 102-120.	4.1	17
133	Does Texturing of UHMWPE Increase Strength and Toughness?: A Pilot Study. Clinical Orthopaedics and Related Research, 2011, 469, 2318-2326.	0.7	16
134	High strain rate behaviour of renewable biocomposites based on dimer fatty acid polyamides and cellulose fibres. Composites Science and Technology, 2011, 71, 674-682.	3.8	36
135	Three-phase solid oxide fuel cell anode microstructure realization using two-point correlation functions. Acta Materialia, 2011, 59, 30-43.	3.8	82
136	Using SAXS approach to estimate thermal conductivity of polystyrene/zirconia nanocomposite by exploiting strong contrast technique. Acta Materialia, 2011, 59, 2742-2748.	3.8	19
137	Modeling of large plastic deformation behavior and anisotropy evolution in cold rolled bcc steels using the viscoplastic $\dot{\epsilon}$ -model-based grain-interaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5840-5853.	2.6	15
138	Microstructure, property and processing relation in gradient porous cathode of solid oxide fuel cells using statistical continuum mechanics. Journal of Power Sources, 2011, 196, 6325-6331.	4.0	22
139	Statistical continuum theory for the effective conductivity of carbon nanotubes filled polymer composites. Thermochimica Acta, 2011, 520, 33-37.	1.2	25
140	Modeling of the Stressâ€“Birefringenceâ€“Stretch Behavior in Rubbers Using the Gent Model. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	0.8	3
141	Influence of Dissipated Energy on Shear Band Spacing in HY-100 Steel. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	0.8	4
142	Investigation of the Stiffness and Yield Behaviour of Melt-Intercalated Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (metha and Nanotechnology, 2010, 10, 2956-2961.	0.9	16
143	Micromechanically-Based Formulation of the Cooperative Model for the Yield Behavior of Starch-Based Nano-Biocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 2949-2955.	0.9	6
144	Towards Optimization of Time Modulated Chemical Vapour Deposition for Nanostructured Diamond Films on Ti6Al4V. Journal of Nanoscience and Nanotechnology, 2010, 10, 2838-2843.	0.9	6

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145	Use of Functionalized Nanosilica to Improve Thermo-Mechanical Properties of Epoxy Adhesive Joint Bonding Aluminium Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2844-2849.	0.9	12
146	3D Reconstruction of Carbon Nanotube Composite Microstructure Using Correlation Functions. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 1462-1468.	0.4	36
147	Statistical continuum theory for the effective conductivity of fiber filled polymer composites: Effect of orientation distribution and aspect ratio. <i>Composites Science and Technology</i> , 2010, 70, 510-517.	3.8	22
148	Yield behaviour of renewable biocomposites of dimer fatty acid-based polyamides with cellulose fibres. <i>Composites Science and Technology</i> , 2010, 70, 525-529.	3.8	23
149	A new three-phase model to estimate the effective elastic properties of semi-crystalline polymers: Application to PET. <i>Mechanics of Materials</i> , 2010, 42, 1-10.	1.7	59
150	Modeling of thermal shock-induced damage in a borosilicate glass. <i>Mechanics of Materials</i> , 2010, 42, 863-872.	1.7	31
151	Numerical study of deformation textures, yield locus, rolling components and Lankford coefficients for FCC polycrystals using the new polycrystalline $\bar{\sigma}$ -model. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 1313-1318.	3.6	5
152	Numerical simulation of residual stresses in diamond coating on Ti-6Al-4V substrate. <i>Thin Solid Films</i> , 2010, 518, 3260-3266.	0.8	17
153	Renewable biocomposites of dimer fatty acid-based polyamides with cellulose fibres: Thermal, physical and mechanical properties. <i>Composites Science and Technology</i> , 2010, 70, 504-509.	3.8	58
154	Characterization of contamination effects for two polypropylene-based materials. <i>Polymer Engineering and Science</i> , 2010, 50, 1-9.	1.5	8
155	Modeling of Biologically Inspired Adhesive Pads Using Monte Carlo Analysis. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1207-1220.	1.4	1
156	Effect of Mechanical Deformation on Electrical Percolation of CNT Polymer Composites. , 2009, , .		0
157	Microstructure Design to Improve Wear Resistance in Bioimplant UHMWPE Materials. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2009, 131, .	0.8	5
158	Preparation, Structural Characterization, and Thermomechanical Properties of Poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Tc Nanotechnology, 2009, 9, 2923-2930.	0.9	17
159	Prediction of crack propagation paths in the unit cell of SOFC stacks. <i>International Journal of Mechanics and Materials in Design</i> , 2009, 5, 217-230.	1.7	6
160	Electromagnetic forming process: estimation of magnetic pressure in tube expansion and numerical simulation. <i>International Journal of Material Forming</i> , 2009, 2, 649-652.	0.9	3
161	Predictions of polycrystalline yield surfaces for fcc metals using a new viscoplastic intermediate approach. <i>International Journal of Material Forming</i> , 2009, 2, 399-402.	0.9	1
162	Analysis of texture evolution in hcp polycrystals using a viscoplastic intermediate approach. <i>International Journal of Material Forming</i> , 2009, 2, 57-60.	0.9	2

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163	Three-dimensional transient finite element analysis of the selective laser sintering process. <i>Journal of Materials Processing Technology</i> , 2009, 209, 700-706.	3.1	176
164	Effective conductivity in isotropic heterogeneous media using a strong-contrast statistical continuum theory. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 76-86.	2.3	41
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166	A new approximation for the three-point probability function. <i>International Journal of Solids and Structures</i> , 2009, 46, 3782-3787.	1.3	23
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