Vikas Tomar

List of Publications by Year
in descending order

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133	2,188	172457	289244
papers	citations	29 h-index	40 g-index

137	137	137	1611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermo-mechanical behavior measurement of polymer-bonded sugar under shock compression using in-situ time-resolved Raman spectroscopy. Scientific Reports, 2022, 12, 1876.	3.3	2
2	Investigation of physical effects on prismatic lithium-ion cell electrodes after partial nail puncture using Raman spectroscopy and incremental capacity analysis. ETransportation, 2022, 12, 100174.	14.8	4
3	Local strain distribution imaging using terahertz timeâ€domain spectroscopy. Strain, 2022, 58, .	2.4	1
4	Local Shock Properties Measurement Using Time-Resolved Raman Spectroscopy. EPJ Web of Conferences, 2021, 250, 01023.	0.3	2
5	Sensor based in-operando lithium-ion battery monitoring in dynamic service environment. Journal of Power Sources, 2021, 486, 229349.	7.8	10
6	Microscale Analysis of Stress Wave Propagation Through Plastic Bonded Explosives Under Micro-Sphere Shock Impact. Journal of Dynamic Behavior of Materials, 2021, 7, 294-306.	1.7	8
7	Determining the effects of non-catastrophic nail puncture on the operational performance and service life of small soft case commercial Li-ion prismatic cells. ETransportation, 2021, 8, 100109.	14.8	9
8	Overdischarge Detection and Prevention With Temperature Monitoring of Li-Ion Batteries and Linear Regression-Based Machine Learning. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	2
9	Flame retardant vermiculite coated on polypropylene separator for lithium-ion batteries. Applied Clay Science, 2021, 208, 106111.	5.2	14
10	Advancements in mechanical Raman spectroscopy for applications in energetic materials. Energetic Materials Frontiers, 2021, 2, 193-200.	3.2	6
11	Operando Monitoring of Electrode Temperatures During Overchargeâ€Caused Thermal Runaway. Energy Technology, 2021, 9, 2100497.	3.8	11
12	Experimental study of anisotropic constitutive behavior of Î²-HMX crystals via nanoindentation and small-scale dynamic impact. SN Applied Sciences, 2021, 3, 1.	2.9	4
13	In Situ Thermal Runaway Detection in Lithium-Ion Batteries with an Integrated Internal Sensor. ACS Applied Energy Materials, 2020, 3, 7997-8008.	5.1	39
14	Constitutive modeling of Î´-phase zircaloy hydride based on strain rate dependent nanoindentation and nano-scale impact dataset. International Journal of Plasticity, 2020, 133, 102787.	8.8	15
15	The role of microstructure in the impact induced temperature rise in hydroxyl terminated polybutadiene (HTPB)â€“cyclotetramethylene-tetranitramine (HMX) energetic materials using the cohesive finite element method. Journal of Applied Physics, 2020, 128, .	2.5	11
16	Microstructure dependent thermal conductivity measurement of Zircaloy-4 using an extended Raman thermometry method. Journal of Nuclear Materials, 2020, 539, 152338.	2.7	5
17	Understanding Dynamics of Polymorphic Conversion during the Tableting Process Using In Situ Mechanical Raman Spectroscopy. Molecular Pharmaceutics, 2020, 17, 3043-3052.	4.6	12
18	Examination of Local Microscale-Microsecond Temperature Rise in HMX-HTPB Energetic Material Under Impact Loading. Jom, 2019, 71, 3531-3535.	1.9	7

#	Article	IF	Citations
19	Nanomechanical Raman Spectroscopy in Biological Materials. , 2019, , 215-228.		0
20	Lithium-ion Battery Thermal Safety by Early Internal Detection, Prediction and Prevention. Scientific Reports, 2019, 9, 13255.	3.3	30
21	The effect of interface shock viscosity on the strain rate induced temperature rise in an energetic material analyzed using the cohesive finite element method. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 065008.	2.0	7
22	Nanoindentation based properties of Inconel 718â€ at elevated temperatures: A comparison of conventional versus additively manufactured samples. International Journal of Plasticity, 2019, 120, 380-394.	8.8	67
23	Simulation guided experimental interface shock viscosity measurement in an energetic material. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 085003.	2.0	9
24	Interface Mechanical Properties in Energetic Materials Using Nanoscale Impact Experiment and Nanomechanical Raman Spectroscopy. Energy, Environment, and Sustainability, 2019, , 275-290.	1.0	6
25	In-situ Crack Tip Stress Measurement at High Temperature in IN-617 Using Combined Nano-Indentation and Nano-Mechanical Raman Spectroscopy. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 51-56.	0.5	0
26	Interface Chemistry Dependent Mechanical Properties in Energetic Materials Using Nano-Scale Impact Experiment. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 147-152.	0.5	3
27	Uncertainty Quantification in Nanoscale Impact Experiment in Energetic Materials. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 257-263.	0.5	0
28	Properties of Material Interfaces: Dynamic Local Versus Nonlocal. , 2019, , 361-376.		0
29	Microstructure-property relationship for AISI 304/308L stainless steel laser weldment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 234-243.	5.6	34
30	Phase field modeling of sintering: Role of grain orientation and anisotropic properties. Computational Materials Science, 2018, 148, 307-319.	3.0	42
31	A phase field modeling based study of microstructure evolution and its influence on thermal conductivity in polycrystalline tungsten under irradiation. Computational Materials Science, 2018, 150, 169-179.	3.0	16
32	Effect of interface chemistry and strain rate on particle-matrix delamination in an energetic material. Engineering Fracture Mechanics, 2018, 191, 46-64.	4.3	41
33	Effect of Interface Chemistry on the Interface Shock Wave Rise Time in Energetic material using Cohesive Finite Element Method. , 2018, , .		0
34	Visualizing Stress and Temperature Distribution During Elevated Temperature Deformation of IN-617 Using Nanomechanical Raman Spectroscopy. Jom, 2018, 70, 464-468.	1.9	3
35	Implementation of a phase field model for simulating evolution of two powder particles representing microstructural changes during sintering. Journal of Materials Science, 2018, 53, 5799-5825.	3.7	34
36	Insights on Structureâ€“Property Correlations by Advanced Characterization Techniques. Jom, 2018, 70, 448-449.	1.9	0

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37	Effect of Strain Rate and Interface Chemistry on Failure in Energetic Materials. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 7-12.	0.5	4
38	Dynamic impact of LiCoO2 electrodes for Li-ion battery aging evaluation. Electrochimica Acta, 2018, 292, 586-593.	5.2	14
39	A path independent energy integral approach for analytical fracture strength of steel-concrete structures with an account of interface effects. Engineering Fracture Mechanics, 2018, 204, 246-267.	4.3	3
40	Investigation of Response of LiCoO2 Cathode to Dynamic Impact Using Raman Imaging-Based Analyses. Jom, 2018, 70, 1423-1429.	1.9	4
41	Strontium Titanate Composites for Microwave-Based Stress Sensing. Jom, 2018, 70, 1811-1815.	1.9	3
42	Interface Mechanical Strength and Elastic Constants Calculations via Nano Impact and Nanomechanical Raman Spectroscopy. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 1-5.	0.5	0
43	Interface Strength Measurements. Jom, 2017, 69, 12-12.	1.9	1
44	High temperature indentation based property measurements of IN-617. International Journal of Plasticity, 2017, 96, 264-281.	8.8	41
45	Interface Mechanics and its Correlation with Plasticity in Polycrystalline Metals, Polymer Composites, and Natural Materials. Procedia Engineering, 2017, 173, 1266-1274.	1.2	7
46	A nanomechanical Raman spectroscopy based assessment of stress distribution in irradiated and corroded SiC. Journal of Nuclear Materials, 2017, 497, 128-138.	2.7	7
47	Advanced Characterization of Interfaces and Thin Films. Jom, 2017, 69, 225-226.	1.9	0
48	Relating Interface Evolution to Interface Mechanics Based on Interface Properties. Jom, 2017, 69, 30-38.	1.9	5
49	Scale Dependence of the Mechanical Properties of Interfaces in Crustaceans Thin Films. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 17-23.	0.5	0
50	Experimentally-validated mesoscale modeling of the coupled mechanicalâ€“thermal response of APâ€“HTPB energetic material under dynamic loading. International Journal of Fracture, 2017, 203, 277-298.	2.2	34
51	Properties of Material Interfaces: Dynamic Local Versus Nonlocal. , 2017, , 1-16.		1
52	Strain Rate Dependent Failure of Interfaces Examined via Nanoimpact Experiments. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 93-102.	0.5	13
53	An investigation into strain rate dependent constitutive properties of a sandwiched epoxy interface. Materials and Design, 2016, 112, 345-356.	7.0	28
54	Stationary and propagating cracks in a strain gradient visco-plastic solid. International Journal of Fracture, 2016, 202, 111-125.	2.2	6

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55	Visualizing In Situ Microstructure Dependent Crack Tip Stress Distribution in IN-617 Using Nano-mechanical Raman Spectroscopy. Jom, 2016, 68, 2742-2747.	1.9	3
56	An investigation into the influence of grain boundary misorientation on the tensile strength of SiC bicrystals. Mechanics of Advanced Materials and Structures, 2016, 23, 494-502.	2.6	7
57	An analysis of the influence of grain boundary strength on microstructure dependent fracture in polycrystalline tungsten. International Journal of Fracture, 2016, 199, 1-20.	2.2	32
58	A study of the evolution of microstructure and consolidation kinetics during sintering using a phase field modeling based approach. Extreme Mechanics Letters, 2016, 7, 78-89.	4.1	65
59	Evaluation of Incoherent Interface Strength of Solid-State-Bonded Ti64/Stainless Steel Under Dynamic Impact Loading. Jom, 2015, 67, 1694-1703.	1.9	14
60	Mechanics of organic-inorganic biointerfacesâ€"Implications for strength and creep properties. MRS Bulletin, 2015, 40, 349-358.	3.5	31
61	Molecular Modeling: A Review of Nanomechanics Based on Molecular Modeling. , 2015, , 37-60.		0
62	Multiscale Characterization of Biological Systems. , 2015, , .		1
63	Nanomechanical Characterization of Temperature-Dependent Mechanical Properties of Ion-Irradiated Zirconium with Consideration of Microstructure and Surface Damage. Jom, 2015, 67, 2945-2958.	1.9	5
64	An investigation into mechanical strength of exoskeleton of hydrothermal vent shrimp (Rimicaris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Science and Engineering C, 2015, 49, 243-250.	7.3	33
65	Influence of interfacial interactions on deformation mechanism and interface viscosity in Î±-chitinâ€"calcite interfaces. Acta Biomaterialia, 2015, 25, 325-338.	8.3	37
66	An investigation into plastic deformation of irradiated tungsten microstructure at elevated temperatures using the Anand's viscoplastic model. International Journal of Plasticity, 2015, 74, 127-140.	8.8	20
67	A comparison of nanoindentation creep deformation characteristics of hydrothermal vent shrimp (Rimicaris exoculata) and shallow water shrimp (Pandalus platyceros) exoskeletons. Journal of Materials Research, 2015, 30, 1110-1120.	2.6	15
68	Scale Dependence of the Mechanical Properties and Microstructure of Crustaceans Thin Films as Biomimetic Materials. Jom, 2015, 67, 858-866.	1.9	16
69	An ab-initio analysis of the influence of knock-on atom induced damage on the peak tensile strength of 3C-SiC grain boundaries. International Journal of Damage Mechanics, 2015, 24, 446-467.	4.2	2
70	Raman Spectroscopy-Based Investigation of Thermal Conductivity of Stressed Silicon Microcantilevers. Journal of Thermophysics and Heat Transfer, 2015, 29, 845-857.	1.6	13
71	Nanomechanics Experiments: A Microscopic Study of Mechanical Property Scale Dependence and Microstructure of Crustacean Thin Films as Biomimetic Materials. , 2015, , 21-36.		1
72	Multiscaling for Molecular Models to Predict Lab Scale Sample Properties: A Review of Phenomenological Models. , 2015, , 61-80.		0

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73	Multiscaling for Molecular Models: Investigating Interface Thermomechanics. , 2015, , 81-92.		0
74	An investigation into environment dependent nanomechanical properties of shallow water shrimp (Pandalus platyceros) exoskeleton. Materials Science and Engineering C, 2014, 44, 371-379.	7.3	27
75	Surface stress variation as a function of applied compressive stress and temperature in microscale silicon. Journal of Applied Physics, 2014, 116, .	2.5	15
76	In Situ Deformation of Silicon Cantilever Under Constant Stress as a Function of Temperature. Journal of Nanotechnology in Engineering and Medicine, 2014, 5, .	0.8	8
77	Raman Thermometry Based Thermal Conductivity Measurement of Bovine Cortical Bone as a Function of Compressive Stress. Journal of Nanotechnology in Engineering and Medicine, 2014, 5, .	0.8	8
78	An in situ platform for the investigation of Raman shift in micro-scale silicon structures as a function of mechanical stress and temperature increase. Review of Scientific Instruments, 2014, 85, 013902.	1.3	31
79	An ab-initio investigation of the effect of graphene on the strength-electron density correlation in SiC grain boundaries. Computational Materials Science, 2014, 92, 422-430.	3.0	3
80	Structural-nanomechanical property correlation of shallow water shrimp (Pandalus platyceros) exoskeleton at elevated temperature. Journal of Bionic Engineering, 2014, 11, 360-370.	5.0	16
81	An ab initio study of the structureâ€“strength correlation in impact damaged SiC grain boundaries. Computational Materials Science, 2014, 82, 331-336.	3.0	5
82	Understanding the influence of grain boundary thickness variation on the mechanical strength of a nickel-doped tungsten grain boundary. International Journal of Plasticity, 2014, 53, 135-147.	8.8	14
83	An analysis of the effects of temperature and structural arrangements on the thermal conductivity and thermal diffusivity of tropocollagenâ€“hydroxyapatite interfaces. Materials Science and Engineering C, 2014, 38, 28-38.	7.3	14
84	An ab initio study of the peak tensile strength of tungsten with an account of helium point defects. International Journal of Plasticity, 2013, 48, 54-71.	8.8	19
85	An examination of nickel doping effect on the mechanical strength of a tungsten grain boundary. Computational Materials Science, 2013, 77, 131-138.	3.0	14
86	An ab initio study of ZrB2â€“SiC interface strength as a function of temperature: Correlating phononic and electronic thermal contributions. Journal of the European Ceramic Society, 2013, 33, 615-625.	5.7	11
87	Ab Initio Investigation of Strain Dependent Atomistic Interactions at Two Tropocollagen-Hydroxyapatite Interfaces. Journal of Engineering Materials and Technology, Transactions of the ASME, 2013, 135, .	1.4	9
88	Orientation dependence of electron and phonon thermal conduction and its correlation with mechanical strength in aluminum interfaces. Journal of Applied Physics, 2013, 114, 034312.	2.5	3
89	Understanding Effect of Grain Boundaries in the Fracture Behavior of Polycrystalline Tungsten under Mode-I Loading. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	1.4	5
90	Ab Initio Study of Coupling between Electronic and Phononic Contribution to Stress-Dependent Thermal Conductivity of Au, Si, and SiC. Journal of Nanomechanics & Micromechanics, 2012, 2, 49-53.	1.4	7

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91	Nanometer to Micron Scale Atomistic Mechanics of Silicon Using Atomistic Simulations at Accelerated Time Steps. Journal of Nanomechanics & Micromechanics, 2011, 1, 134-141.	1.4	2
92	Correlating Microscale Thermal Conductivity of Heavily-Doped Silicon With Simultaneous Measurements of Stress. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	12
93	Scale and temperature dependent creep modeling and experiments in materials. Jom, 2011, 63, 27-34.	1.9	8
94	Nanometer to micron scale mechanics of [100] silicon nanowires using atomistic simulations at accelerated time steps. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2115-2123.	1.8	11
95	Temperature dependent nanomechanics of Siâ€“Câ€“N nanocomposites with an account of particle clustering and grain boundaries. International Journal of Hydrogen Energy, 2011, 36, 4605-4616.	7.1	10
96	Correlation of Thermal Conduction Properties With Mechanical Deformation Characteristics of a Set of SiCâ€“Si3N4 Nanocomposites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	3
97	Effect of osteogenesis imperfecta mutations in tropocollagen molecule on strength of biomimetic tropocollagen-hydroxyapatite nanocomposites. Applied Physics Letters, 2010, 96, .	3.3	17
98	Role of Molecular Level Interfacial Forces in Hard Biomaterial Mechanics: A Review. Annals of Biomedical Engineering, 2010, 38, 2040-2055.	2.5	31
99	Effect of Compressive Straining on Nanoindentation Elastic Modulus of Trabecular Bone. Experimental Mechanics, 2010, 50, 773-781.	2.0	9
100	Effect of changes in tropocollagen residue sequence and hydroxyapatite mineral texture on the strength of ideal nanoscale tropocollagen-hydroxyapatite biomaterials. Journal of Materials Science: Materials in Medicine, 2010, 21, 161-171.	3.6	18
101	Atomistic analyses of the effect of temperature and morphology on mechanical strength of Siâ€“Câ€“N and Siâ€“Câ€“O nanocomposites. Journal of the European Ceramic Society, 2010, 30, 2223-2237.	5.7	33
102	Role of length scale and temperature in indentation induced creep behavior of polymer derived Siâ€“Câ€“O ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7615-7623.	5.6	39
103	The role of straining and morphology in thermal conductivity of a set of Siâ€“Ge superlattices and biomimetic Siâ€“Ge nanocomposites. Journal Physics D: Applied Physics, 2010, 43, 135401.	2.8	27
104	Tensile and Compressive Loading Effects on Texture Dependent Nanoscale Mechanical Behavior of Model Tropocollagen-Hydroxyapatite Biomaterials. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1306-1316.	0.4	7
105	Atomistic Understanding of the Particle Clustering and Particle Size Effect on the Room Temperature Strength of SiC-Si3N4 Nanocomposites. International Journal for Multiscale Computational Engineering, 2010, 8, 463-472.	1.2	5
106	Role of heat flow direction, monolayer film thickness, and periodicity in controlling thermal conductivity of a Siâ€“Ge superlattice system. Journal of Applied Physics, 2009, 105, .	2.5	30
107	Role of the nanoscale interfacial arrangement in mechanical strength of tropocollagenâ€“hydroxyapatite-based hard biomaterials. Acta Biomaterialia, 2009, 5, 2704-2716.	8.3	64
108	Role of hydroxyapatite crystal shape in nanoscale mechanical behavior of model tropocollagenâ€“hydroxyapatite hard biomaterials. Materials Science and Engineering C, 2009, 29, 2133-2140.	7.3	32

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109	Insights into the effects of tensile and compressive loadings on microstructure dependent fracture of trabecular bone. Engineering Fracture Mechanics, 2009, 76, 884-897.	4.3	25
110	Understanding the influence of structural hierarchy and its coupling with chemical environment on the strength of idealized tropocollagenâ€“hydroxyapatite biomaterials. Journal of the Mechanics and Physics of Solids, 2009, 57, 1702-1717.	4.8	42
111	The effect of tensile and compressive loading on the hierarchical strength of idealized tropocollagenâ€“hydroxyapatite biomaterials as a function of the chemical environment. Journal of Physics Condensed Matter, 2009, 21, 205103.	1.8	23
112	The role of interface thermal boundary resistance in the overall thermal conductivity of Siâ€“Ge multilayered structures. Nanotechnology, 2009, 20, 365701.	2.6	74
113	Atomistic Simulations - Based Understanding of the Mechanism behind the Role of Second-Phase SiC Particles in Fracture Resistance of SiC-Si3N4 Nanocomposites. International Journal for Multiscale Computational Engineering, 2009, 7, 277-294.	1.2	9
114	Microstructure dependent dynamic fracture analyses of trabecular bone based on nascent bone atomistic simulations. Mechanics Research Communications, 2008, 35, 24-31.	1.8	29
115	Analyses of the role of grain boundaries in mesoscale dynamic fracture resistance of SiCâ€“Si3N4 intergranular nanocomposites. Engineering Fracture Mechanics, 2008, 75, 4501-4512.	4.3	32
116	Modeling of Dynamic Fracture and Damage in Two-Dimensional Trabecular Bone Microstructures Using the Cohesive Finite Element Method. Journal of Biomechanical Engineering, 2008, 130, 021021.	1.3	29
117	A Variable Fidelity Model Management Framework for Designing Multiphase Materials. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	14
118	Analyses of the role of the second phase SiC particles in microstructure dependent fracture resistance variation of SiC-Si3N4nanocomposites. Modelling and Simulation in Materials Science and Engineering, 2008, 16, 035001.	2.0	25
119	Accelerating the molecular time steps for nanomechanical simulations: Hybrid Monte Carlo method. Journal of Applied Physics, 2007, 101, 103512.	2.5	7
120	Analyses of tensile deformation of nanocrystalline Î±-Fe2O3+fcc-Al composites using molecular dynamics simulations. Journal of the Mechanics and Physics of Solids, 2007, 55, 1053-1085.	4.8	37
121	Nanomechanical analyses of nanocrystalline Ni using accelerated molecular timesteps. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3340-3348.	1.8	3
122	Atomistic Simulations of Strain Rate Dependent Deformation Behavior at Continuum Timescales. Materials Research Society Symposia Proceedings, 2006, 976, 1.	0.1	0
123	A method for analyzing nanomechanical deformation of nanocrystalline Ni at higher timesteps than is possible in classical molecular dynamics. Materials Research Society Symposia Proceedings, 2006, 978, .	0.1	0
124	Tension-compression strength asymmetry of nanocrystalline Î±-Fe2O3+fcc-Al ceramic-metal composites. Applied Physics Letters, 2006, 88, 233107.	3.3	29
125	Classical molecular-dynamics potential for the mechanical strength of nanocrystalline composite fccAl+Î±â^'Fe2O3. Physical Review B, 2006, 73, .	3.2	27
126	Deterministic and stochastic analyses of fracture processes in a brittle microstructure system. Engineering Fracture Mechanics, 2005, 72, 1920-1941.	4.3	40

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127	A Study of Shock-Wave Propagation in Single Crystallinefcc-Al and Î±-Fe2O3and an Interface between Two Such Phases Using MD Simulations. Materials Research Society Symposia Proceedings, 2005, 896, 31.	0.1	2
128	Molecular Dynamics Simulation of Shock Induced Detonation. AIP Conference Proceedings, 2004, , .	0.4	2
129	A Molecular Dynamics Simulation Framework for an Al+Fe2O3 Reactive Metal Powder Mixture. Materials Research Society Symposia Proceedings, 2004, 821, 140.	0.1	3
130	Micromechanical Simulation of Dynamic Fracture Using the Cohesive Finite Element Method. Journal of Engineering Materials and Technology, Transactions of the ASME, 2004, 126, 179-191.	1.4	89
131	Bounds for element size in a variable stiffness cohesive finite element model. International Journal for Numerical Methods in Engineering, 2004, 61, 1894-1920.	2.8	160
132	First Principles Calculations of Interfaces in Ultra High Temperature Ceramics. Advances in Science and Technology, 0, , .	0.2	0
133	In Situ Thermal Runaway Detection in Lithium-Ion Batteries with Integrated Internal Sensor. SSRN Electronic Journal, 0, , .	0.4	0