Seung Tae Choi

List of Publications by Year
in descending order

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34	382	759233	794594
papers	citations	12	19
		h-index	g-index

36	36	36	585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser-assisted fabrication of flexible monofilament fiber supercapacitors. Journal of Materials Chemistry A, 2021, 9, 4841-4850.	10.3	20
2	Atomic mixed-mode cohesive-zone dual constitutive laws of impurity-embrittled grain boundaries in polycrystalline solids via nanoscale field projection method. Journal of the Mechanics and Physics of Solids, 2021, 152, 104453.	4.8	0
3	Dislocation nucleation and segregation under adhesive contact of a nano-asperity coating on a crystalline solid. European Journal of Mechanics, A/Solids, 2021, 89, 104311.	3.7	1
4	Creep lifetime prediction of virgin and service-exposed Super304H austenitic stainless steel boiler tubes based on hierarchical multiscale analysis and creep cavitation model. Materials at High Temperatures, 2020, 37, 16-31.	1.0	2
5	Creep lifetime prediction of 9Cr-1Mo (grade T91) steel via small punch creep tests and hierarchical multiscale analysis. Materials at High Temperatures, 2020, 37, 462-477.	1.0	4
6	Changes in creep property and precipitates due to aging of T91 steel after long-term service. Journal of Mechanical Science and Technology, 2020, 34, 3283-3293.	1.5	6
7	Localized Fretting-Vibrotactile Sensations for Large-Area Displays. ACS Applied Materials & Interfaces, 2019, 11, 33292-33301.	8.0	10
8	Extended JKR theory on adhesive contact of coated spheres. Acta Mechanica, 2019, 230, 4213-4233.	2.1	2
9	Audio-Tactile Skinny Buttons for Touch User Interfaces. Scientific Reports, 2019, 9, 13290.	3.3	15
10	Effect of creep lifetime on geometric optimization of boiler tubes for thermal power plants. Materials at High Temperatures, 2019, 36, 379-387.	1.0	3
11	Tribological Behavior of Grafted Nanoparticle on Polymer-Brushed Walls: A Dissipative Particle Dynamics Study. ACS Applied Materials & Interfaces, 2019, 11, 11988-11998.	8.0	15
12	Pattern transformation induced by elastic instability of metallic porous structures. Computational Materials Science, 2019, 157, 17-24.	3.0	11
13	Atomic-scale mode separation for mixed-mode intergranular fracture in polycrystalline metals. Theoretical and Applied Fracture Mechanics, 2018, 96, 45-55.	4.7	7
14	Atomic-scale mutual integrals for mixed-mode fracture: Abnormal fracture toughness of grain boundaries in graphene. International Journal of Solids and Structures, 2018, 138, 205-216.	2.7	14
15	Capacitorâ€Integrated Triboelectric Nanogenerator Based on Metalâ€“Metal Contact for Current Amplification. Advanced Energy Materials, 2018, 8, 1703024.	19.5	37
16	Triboelectric Nanogenerators: Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification (Adv. Energy Mater. 15/2018). Advanced Energy Materials, 2018, 8, 1870070.	19.5	1
17	Enhanced thermo-electro-mechanical characteristics of purified P(VDF-TrFE) films for ultrasonic transducers. Sensors and Actuators A: Physical, 2018, 279, 586-592.	4.1	3
18	Laser-Induced Particle Adsorption on Atomically Thin MoS₂. ACS Applied Materials & Interfaces, 2016, 8, 2974-2984.	8.0	27

#	Article	IF	Citations
19	Atomistic study on mixed-mode fracture mechanisms of ferrite iron interacting with coherent copper and nickel nanoclusters. Journal of Nuclear Materials, 2016, 472, 20-27.	2.7	10
20	Extended JKR theory on adhesive contact between elastic coatings on rigid cylinders under plane strain. International Journal of Solids and Structures, 2015, 71, 244-254.	2.7	12
21	Pressure-induced relaxor-to-ferroelectric crossover in vinylidene fluoride relaxor terpolymer: a possible explanation to the high performance of the terpolymer nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1455-1461.	2.9	2
22	Opto-mechanical analysis of nonlinear elastomer membrane deformation under hydraulic pressure for variable-focus liquid-filled microlenses. Optics Express, 2014, 22, 6133.	3.4	36
23	Time-dependent adhesion of a polydimethylsiloxane (PDMS) elastomer film to a flat indenter tip characterized using a cohesive-zone law. Philosophical Magazine Letters, 2014, 94, 242-250.	1.2	0
24	A flexible tactile-feedback touch screen using transparent ferroelectric polymer film vibrators. Smart Materials and Structures, 2014, 23, 074004.	3.5	15
25	Multilayered relaxor ferroelectric polymer actuators for low-voltage operation fabricated with an adhesion-mediated film transfer technique. Sensors and Actuators A: Physical, 2013, 203, 282-290.	4.1	37
26	Extended JKR theory on adhesive contact of a spherical tip onto a film on a substrate. Journal of Materials Research, 2012, 27, 113-120.	2.6	16
27	Finite element analysis of a subsurface penny-shaped crack with crack-face contact and friction under a moving compressive load. Journal of Mechanical Science and Technology, 2012, 26, 2719-2726.	1.5	11
28	Varifocal liquid-filled microlens operated by an electroactive polymer actuator. Optics Letters, 2011, 36, 1920.	3.3	30
29	Flat indentation of a viscoelastic polymer film on a rigid substrate. Acta Materialia, 2008, 56, 5377-5387.	7.9	21
30	Singularities Interacting With a Coated Circular Inhomogeneity Revisited. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	2.2	0
31	Thermoelastic Interaction Between Singularities and Interfaces in an Anisotropic Trimaterial. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 1285-1288.	2.2	0
32	Study on residual stress in viscoelastic thin film using curvature measurement method. Journal of Mechanical Science and Technology, 2004, 18, 12-19.	0.4	7
33	Interfacial crack tip field in anisotropic/isotropic bimaterials. Composite Structures, 2004, 66, 673-676.	5.8	7
34	Stress intensity factors and kink angle of a crack interacting with a circular inclusion under remote mechanical and thermal loadings. Journal of Mechanical Science and Technology, 2003, 17, 1120-1132.	0.4	0