

# Seung Tae Choi

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

382  
citations

759233

12  
h-index

794594

19  
g-index

36  
all docs

36  
docs citations

36  
times ranked

585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilayered relaxor ferroelectric polymer actuators for low-voltage operation fabricated with an adhesion-mediated film transfer technique. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 282-290.	4.1	37
2	Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification. <i>Advanced Energy Materials</i> , 2018, 8, 1703024.	19.5	37
3	Opto-mechanical analysis of nonlinear elastomer membrane deformation under hydraulic pressure for variable-focus liquid-filled microlenses. <i>Optics Express</i> , 2014, 22, 6133.	3.4	36
4	Varifocal liquid-filled microlens operated by an electroactive polymer actuator. <i>Optics Letters</i> , 2011, 36, 1920.	3.3	30
5	Laser-Induced Particle Adsorption on Atomically Thin MoS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2974-2984.	8.0	27
6	Flat indentation of a viscoelastic polymer film on a rigid substrate. <i>Acta Materialia</i> , 2008, 56, 5377-5387.	7.9	21
7	Laser-assisted fabrication of flexible monofilament fiber supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4841-4850.	10.3	20
8	Extended JKR theory on adhesive contact of a spherical tip onto a film on a substrate. <i>Journal of Materials Research</i> , 2012, 27, 113-120.	2.6	16
9	A flexible tactile-feedback touch screen using transparent ferroelectric polymer film vibrators. <i>Smart Materials and Structures</i> , 2014, 23, 074004.	3.5	15
10	Audio-Tactile Skinny Buttons for Touch User Interfaces. <i>Scientific Reports</i> , 2019, 9, 13290.	3.3	15
11	Tribological Behavior of Grafted Nanoparticle on Polymer-Brushed Walls: A Dissipative Particle Dynamics Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11988-11998.	8.0	15
12	Atomic-scale mutual integrals for mixed-mode fracture: Abnormal fracture toughness of grain boundaries in graphene. <i>International Journal of Solids and Structures</i> , 2018, 138, 205-216.	2.7	14
13	Extended JKR theory on adhesive contact between elastic coatings on rigid cylinders under plane strain. <i>International Journal of Solids and Structures</i> , 2015, 71, 244-254.	2.7	12
14	Finite element analysis of a subsurface penny-shaped crack with crack-face contact and friction under a moving compressive load. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2719-2726.	1.5	11
15	Pattern transformation induced by elastic instability of metallic porous structures. <i>Computational Materials Science</i> , 2019, 157, 17-24.	3.0	11
16	Atomistic study on mixed-mode fracture mechanisms of ferrite iron interacting with coherent copper and nickel nanoclusters. <i>Journal of Nuclear Materials</i> , 2016, 472, 20-27.	2.7	10
17	Localized Fretting-Vibrotactile Sensations for Large-Area Displays. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33292-33301.	8.0	10
18	Study on residual stress in viscoelastic thin film using curvature measurement method. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 12-19.	0.4	7

#	ARTICLE	IF	CITATIONS
19	Interfacial crack tip field in anisotropic/isotropic bimaterials. <i>Composite Structures</i> , 2004, 66, 673-676.	5.8	7
20	Atomic-scale mode separation for mixed-mode intergranular fracture in polycrystalline metals. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 96, 45-55.	4.7	7
21	Changes in creep property and precipitates due to aging of T91 steel after long-term service. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 3283-3293.	1.5	6
22	Creep lifetime prediction of 9Cr-1Mo (grade T91) steel via small punch creep tests and hierarchical multiscale analysis. <i>Materials at High Temperatures</i> , 2020, 37, 462-477.	1.0	4
23	Enhanced thermo-electro-mechanical characteristics of purified P(VDF-TrFE) films for ultrasonic transducers. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 586-592.	4.1	3
24	Effect of creep lifetime on geometric optimization of boiler tubes for thermal power plants. <i>Materials at High Temperatures</i> , 2019, 36, 379-387.	1.0	3
25	Pressure-induced relaxor-to-ferroelectric crossover in vinylidene fluoride relaxor terpolymer: a possible explanation to the high performance of the terpolymer nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1455-1461.	2.9	2
26	Extended JKR theory on adhesive contact of coated spheres. <i>Acta Mechanica</i> , 2019, 230, 4213-4233.	2.1	2
27	Creep lifetime prediction of virgin and service-exposed Super304H austenitic stainless steel boiler tubes based on hierarchical multiscale analysis and creep cavitation model. <i>Materials at High Temperatures</i> , 2020, 37, 16-31.	1.0	2
28	Triboelectric Nanogenerators: Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification ( <i>Adv. Energy Mater.</i> 15/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870070.	19.5	1
29	Dislocation nucleation and segregation under adhesive contact of a nano-asperity coating on a crystalline solid. <i>European Journal of Mechanics, A/Solids</i> , 2021, 89, 104311.	3.7	1
30	Stress intensity factors and kink angle of a crack interacting with a circular inclusion under remote mechanical and thermal loadings. <i>Journal of Mechanical Science and Technology</i> , 2003, 17, 1120-1132.	0.4	0
31	Thermoelastic Interaction Between Singularities and Interfaces in an Anisotropic Trimaterial. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 1285-1288.	2.2	0
32	Singularities Interacting With a Coated Circular Inhomogeneity Revisited. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	2.2	0
33	Time-dependent adhesion of a polydimethylsiloxane (PDMS) elastomer film to a flat indenter tip characterized using a cohesive-zone law. <i>Philosophical Magazine Letters</i> , 2014, 94, 242-250.	1.2	0
34	Atomic mixed-mode cohesive-zone dual constitutive laws of impurity-embrittled grain boundaries in polycrystalline solids via nanoscale field projection method. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 152, 104453.	4.8	0