Minoru Taya

List of Publications by Year
in descending order

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37 papers	1,377 citations	430442 18 h-index	414034 32 g-index
37 all docs	37 docs citations	37 times ranked	1390 citing authors

#	Article	IF	Citations
1	Mechanical stress-induced cell death in breast cancer cells. Biology Open, 2019, 8, .	0.6	22
2	Fracture-Induced Mechanoelectrical Sensitivities of Paper-Based Nanocomposites. Advanced Materials Technologies, 2018, 3, 1700266.	3.0	6
3	Review on viscoelastic behavior of dielectric polymers and their actuators. , 2018, , .		3
4	A variable stiffness dielectric elastomer actuator based on electrostatic chucking. Soft Matter, 2017, 13, 3440-3448.	1.2	61
5	Site-specific characterization of beetle horn shell with micromechanical bending test in focused ion beam system. Acta Biomaterialia, 2017, 57, 395-403.	4.1	9
6	Experimentally verified model of viscoelastic behavior of multilayer unimorph dielectric elastomer actuators. Smart Materials and Structures, 2016, 25, 105028.	1.8	19
7	A review on fabrication processes for electrochromic devices. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 397-421.	2.7	70
8	Design of segmented thermoelectric generator based on cost-effective and light-weight thermoelectric alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 45-52.	1.7	88
9	Design of a New Energyâ€Harvesting Electrochromic Window Based on an Organic Polymeric Dye, a Cobalt Couple, and PProDOTâ€Me₂. Advanced Energy Materials, 2014, 4, 1400379.	10.2	44
10	Design of dye-sensitized solar cells integrated in composite panel subjected to bending. Journal of Composite Materials, 2013, 47, 27-32.	1.2	4
11	Vacuum filling process for electrolyte in enhancing electrochromic polymer window assembly. Polymers for Advanced Technologies, 2009, 20, 178-182.	1.6	16
12	Analytical Modeling for Stress-Strain Curve of a Porous NiTi. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 291-297.	1.1	21
13	Bio-inspired actuating system for swimming using shape memory alloy composites. International Journal of Automation and Computing, 2006, 3, 366-373.	4.5	25
14	Mechanical stability optimization of Flemion-based composite artificial muscles by use of proper solvent. Journal of Materials Research, 2006, 21, 2018-2022.	1.2	14
15	Switchable window based on electrochromic polymers. Journal of Materials Research, 2004, 19, 2072-2080.	1.2	87
16	Fabrication and Evaluation of Porous Piezoelectric Ceramics and Porosityâ€“Graded Piezoelectric Actuators. Journal of the American Ceramic Society, 2003, 86, 1094-1098.	1.9	147
17	OS05W0303 Hybrid nano-characterization of martensitic transformation and degradation for Fe-Pd shape memory alloy using atomic and magnetic force microscopy. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics. 2003. 2003.2. _OS05W0303-_OS05W0303.	0.0	0
18	Reversible Hardness Variance as a Commonly Observable Phenomenon for Various Amphoteric Gels.. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2002, 45, 579-584.	0.4	4

#	Article	IF	Citations
19	Design and fabrication of functionally graded PZT/Pt piezoelectric bimorph actuator. Science and Technology of Advanced Materials, 2002, 3, 217-224.	2.8	56
20	PL-1 MODELING OF ACTIVE MATERIALS. The Proceedings of the JSME Materials and Processing Conference (M&P), 2002, 10.1, 1-5.	0.1	0
21	Stress Field Caused by Polygonal Inclusion.. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2001, 44, 472-482.	0.4	14
22	Processing of the fast responsive porous acrylamide gel for the artificial muscle use. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2001, 2001.13, 274-275.	0.0	0
23	Enhancement of High Temperature Mechanical Strength of TiNi Fiber/Al Composite Induced by Shape Memory Effect. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1996, 60, 1163-1172.	0.2	8
24	Micromechanics Modeling of Electronic Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 1995, 117, 462-469.	0.8	21
25	Effect of Debonding at the Phase Interface on Young’s Modulus of Sintered PSZ/Stainless Steel Composite. Materials Transactions, JIM, 1994, 35, 814-820.	0.9	6
26	Effect of Debonding at the Phase Interface on Young’s Modulus in Sintered PSZ/Stainless Steel Composite. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1994, 58, 162-168.	0.2	9
27	Electromechanical Properties of Porous Piezoelectric Ceramics. Journal of the American Ceramic Society, 1993, 76, 1697-1706.	1.9	171
28	The effective thermal conductivity of composites with coated reinforcement and the application to imperfect interfaces. Journal of Applied Physics, 1993, 73, 1711-1722.	1.1	95
29	Thermal Cycling Damage of Metal Matrix Composites: Analytical Study on Dimensional Change. Applied Mechanics Reviews, 1993, 46, 201-210.	4.5	3
30	Strengthening of Metal Matrix Composite by Shape Memory Effect. Materials Transactions, JIM, 1993, 34, 254-260.	0.9	50
31	MECHANICAL PROPERTIES OF SHAPE MEMORY TiNi FIBER REINFORCED/Al MATRIX COMPOSITE. Journal of Advanced Science, 1993, 5, c1-c1.	0.1	0
32	Effects of Thermal Cycling on Properties of Carbon Fiber/Aluminum Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 1988, 110, 89-95.	0.8	8
33	Prediction of the In-Plane Electrical Conductivity of a Misoriented Short Fiber Composite: Fiber Percolation Model Versus Effective Medium Theory. Journal of Engineering Materials and Technology, Transactions of the ASME, 1987, 109, 252-256.	0.8	36
34	Thermal Stress in a Coated Short Fiber Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 1987, 109, 59-63.	0.8	15
35	Thermal conductivity of coated filler composites. Journal of Applied Physics, 1986, 59, 1851-1860.	1.1	153
36	Thermal Stress in a Coated Short Fibre Composite. Journal of Applied Mechanics, Transactions ASME, 1986, 53, 681-689.	1.1	37

#	Article	IF	Citations
37	Prediction of the electrical conductivity of twoâ€dimensionally misoriented short fiber composites by a percolation model. Journal of Applied Physics, 1986, 60, 459-461.	1.1	55