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	Electromechanical Properties of Porous Piezoelectric Ceramics. Journal of the American Ceramic Society, 1993, 76, 1697-1706.	1.9	171
2	Thermal conductivity of coated filler composites. Journal of Applied Physics, 1986, 59, 1851-1860.	1.1	153
3	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
4	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
5	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
6	Switchable window based on electrochromic polymers. Journal of Materials Research, 2004, 19, 2072-2080.	1.2	87
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	A variable stiffness dielectric elastomer actuator based on electrostatic chucking. Soft Matter, 2017, 13, 3440-3448.	1.2	61
9	Design and fabrication of functionally graded PZT/Pt piezoelectric bimorph actuator. Science and Technology of Advanced Materials, 2002, 3, 217-224.	2.8	56
10	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
11	Strengthening of Metal Matrix Composite by Shape Memory Effect. Materials Transactions, JIM, 1993, 34, 254-260.	0.9	50
12	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
13	Thermal Stress in a Coated Short Fibre Composite. Journal of Applied Mechanics, Transactions ASME, 1986, 53, 681-689.	1.1	37
14	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
15	Bio-inspired actuating system for swimming using shape memory alloy composites. International Journal of Automation and Computing, 2006, 3, 366-373.	4.5	25
16	Mechanical stress-induced cell death in breast cancer cells. Biology Open, 2019, 8, .	0.6	22
17	Micromechanics Modeling of Electronic Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 1995, 117, 462-469.	0.8	21
18	Analytical Modeling for Stress-Strain Curve of a Porous NiTi. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 291-297.	1.1	21

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19	Experimentally verified model of viscoelastic behavior of multilayer unimorph dielectric elastomer actuators. Smart Materials and Structures, 2016, 25, 105028.	1.8	19
20	Vacuum filling process for electrolyte in enhancing electrochromic polymer window assembly. Polymers for Advanced Technologies, 2009, 20, 178-182.	1.6	16
21	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
22	Stress Field Caused by Polygonal Inclusion.. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2001, 44, 472-482.	0.4	14
23	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
24	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
25	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
26	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
27	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
28	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
29	Fracture-Induced Mechanoelectrical Sensitivities of Paper-Based Nanocomposites. Advanced Materials Technologies, 2018, 3, 1700266.	3.0	6
30	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
31	Design of dye-sensitized solar cells integrated in composite panel subjected to bending. Journal of Composite Materials, 2013, 47, 27-32.	1.2	4
32	Thermal Cycling Damage of Metal Matrix Composites: Analytical Study on Dimensional Change. Applied Mechanics Reviews, 1993, 46, 201-210.	4.5	3
33	Review on viscoelastic behavior of dielectric polymers and their actuators. , 2018, , .		3
34	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
35	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
36	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

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37	MECHANICAL PROPERTIES OF SHAPE MEMORY TiNi FIBER REINFORCED/Al MATRIX COMPOSITE. Journal of Advanced Science, 1993, 5, c1-c1.	0.1	0