

Keiichi Shirasu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

520
citations

11
h-index

22
g-index

43
ext. papers

625
ext. citations

4.4
avg, IF

3.83
L-index

#	Paper	IF	Citations
40	Uncovering the Mechanism of Size Effect on the Thermomechanical Properties of Highly Cross-Linked Epoxy Resins.. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	3
39	Lap-shear strength and fracture behavior of CFRP/3D-printed titanium alloy adhesive joint prepared by hot-press-aided co-bonding. <i>International Journal of Adhesion and Adhesives</i> , 2022 , 103169	3.4	0
38	Multiscale modeling of process-induced residual deformation on carbon-fiber-reinforced plastic laminate from quantum calculation to laminate scale finite-element analysis. <i>Mechanics of Materials</i> , 2022 , 170, 104332	3.3	1
37	Molecular Dynamics Simulations and Theoretical Model for Engineering Tensile Properties of Single-and Multi-Walled Carbon Nanotubes. <i>Nanomaterials</i> , 2021 , 11,	5.4	7
36	Study on the mechanical and electrical properties of twisted CNT yarns fabricated from CNTs with various diameters. <i>Carbon</i> , 2021 , 176, 400-410	10.4	6
35	Molecular dynamics simulation of cross-linking processes and material properties for epoxy resins using first-principle calculation combined with global reaction route mapping algorithms. <i>Chemical Physics Letters</i> , 2021 , 762, 138104	2.5	4
34	Thermoset resin curing simulation using quantum-chemical reaction path calculation and dissipative particle dynamics. <i>Soft Matter</i> , 2021 , 17, 6707-6717	3.6	6
33	Amine/epoxy stoichiometric ratio dependence of crosslinked structure and ductility in amine-cured epoxy thermosetting resins. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50542	2.9	9
32	Effect of carbon fibres on the static and fatigue mechanical properties of fibre metal laminates. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1461-1472	3	2
31	Enhanced tribological performance of alumina composites reinforced with acid-treated carbon nanotubes under water lubrication. <i>Diamond and Related Materials</i> , 2020 , 101, 107657	3.5	2
30	Liquid-Phase Assisted Engineering of Highly Strong SiC Composite Reinforced by Multiwalled Carbon Nanotubes. <i>Advanced Science</i> , 2020 , 7, 2002225	13.6	2
29	Machine Learning-Assisted High-Throughput Molecular Dynamics Simulation of High-Mechanical Performance Carbon Nanotube Structure. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
28	Effects of high-temperature thermal annealing on properties of aligned multi-walled carbon nanotube sheets and their composites. <i>Composite Interfaces</i> , 2020 , 27, 569-586	2.3	4
27	Stack-coating of multishell carbon layers templated with carbon nanotubes. <i>Materials Today Communications</i> , 2019 , 21, 100608	2.5	4
26	Mechanical and thermal expansion properties of aligned carbon nanotube reinforced epoxy composites. <i>Mechanical Engineering Journal</i> , 2019 , 6, 19-00012-19-00012	0.5	1
25	How do the mechanical properties of carbon nanotubes increase? An experimental evaluation and modeling of the engineering tensile strength of individual carbon nanotubes. <i>Materials Research Express</i> , 2019 , 6, 055047	1.7	21
24	Effect of graphitization on mechanical properties of untwisted carbon nanotube yarn and its strength development mechanism. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 17-00585-17-00585 ^{0.2}		4

23	Potential use of CNTs for production of zero thermal expansion coefficient composite materials: An experimental evaluation of axial thermal expansion coefficient of CNTs using a combination of thermal expansion and uniaxial tensile tests. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 95, 152-160	8.4	55
22	Development of large-movements and high-force electrothermal bimorph actuators based on aligned carbon nanotube reinforced epoxy composites. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 455-463	3.9	18
21	Key factors limiting carbon nanotube strength: Structural characterization and mechanical properties of multi-walled carbon nanotubes. <i>Mechanical Engineering Journal</i> , 2017 , 4, 17-00029-17-00029	0.5	11
20	Effects of structural defects on strength and fracture properties of multi-walled carbon nanotubes. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 16-00283-16-00283	0.2	3
19	Application of Aligned Carbon Nanotube-Reinforced Polymer Composite to Electrothermal Actuator 2016 ,		1
18	Preparation and performance evaluation of electrothermal actuators using aligned carbon nanotube reinforced epoxy composites. <i>Mechanical Engineering Journal</i> , 2016 , 3, 15-00607-15-00607	0.5	1
17	Temperature dependence of axial thermal expansion coefficient of multi-walled carbon nanotubes (A procedure based on measurements of coefficient of thermal expansion for aligned carbon nanotube/epoxy composites). <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 16-00228-16-00228	0.2	1
16	Effects of processing conditions on microstructure, electrical conductivity and mechanical properties of MWCNT/alumina composites prepared by flocculation. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3903-3908	6	15
15	Negative axial thermal expansion coefficient of carbon nanotubes: Experimental determination based on measurements of coefficient of thermal expansion for aligned carbon nanotube reinforced epoxy composites. <i>Carbon</i> , 2015 , 95, 904-909	10.4	70
14	Relationship between microstructure and mechanical properties in acid-treated carbon nanotube-reinforced alumina composites. <i>Journal of Materials Science</i> , 2015 , 50, 6688-6699	4.3	12
13	Inclined slit-based pullout method for determining interfacial strength of multi-walled carbon nanotube/alumina composites. <i>Carbon</i> , 2014 , 78, 439-445	10.4	16
12	Microstructure-property relationships in pressureless-sintered carbon nanotube/alumina composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 617, 179-186	5.3	33
11	Structure-property relationships in thermally-annealed multi-walled carbon nanotubes. <i>Carbon</i> , 2014 , 66, 219-226	10.4	61
10	Tensile mechanical properties of carbon nanotube/epoxy composite fabricated by pultrusion of carbon nanotube spun yarn preform. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 62, 32-38	8.4	42
9	Effects of Annealing Treatment of Carbon Nanotube on the Fracture Properties of Carbon Nanotube/Alumina Composites. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013 , 79, 706-710		
8	Evaluation of Mechanical Properties and Microstructures of Multi-Walled Carbon Nanotube/Alumina Composites Prepared by Pressureless Sintering. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013 , 79, 764-768		1
7	Effect of Surface Modification of Carbon Nanotube on the Strength Properties of Carbon Nanotube/Alumina Composites and Their Fracture Process. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2011 , 77, 774-778		1
6	Preparation of Carbon Nanotube Reinforced Alumina Composites and Examination of Their Fracture Mechanisms. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2011 , 77, 1041-1045		

- 5 Nanotube fracture during the failure of carbon nanotube/alumina composites. *Carbon*, **2011**, 49, 3709-3716 95
- 4 191 Observation of the Carbon Nanotube/Alumina Composites Fracture Process and Improvement of Their Mechanical Properties. *The Proceedings of Conference of Tohoku Branch*, **2011**, 2011.46, 184-185^o
- 3 112 Preparation of Carbon Nanotube Reinforced Alumina Composites and Examination of Their Fracture Mechanisms. *The Proceedings of the Materials and Processing Conference*, **2010**, 2010.18, _112-1_^o_112-5_
- 2 Epitaxial pyrolytic carbon coatings templated with defective carbon nanotube cores for structural annealing and tensile property improvement. *Journal of Materials Science*, 1 4.3 1
- 1 Experimental and numerical study on open-hole tension/compression properties of carbon-fiber-reinforced thermoplastic laminates. *Journal of Composite Materials*, 002199832210968 2.7 1