

Yoshihiko Arao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7915541/publications.pdf>

Version: 2024-02-01

52
papers

1,070
citations

430442

18
h-index

414034

32
g-index

52
all docs

52
docs citations

52
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	The activation of furfuryl alcohol polymerization by oxygen and its enhanced mechanical properties. Journal of Applied Polymer Science, 2021, 138, 50311.	1.3	5
2	New Approach to Recycling of Epoxy Resins Using Nitric Acid: Regeneration of Decomposed Products through Hydrogenation. ACS Sustainable Chemistry and Engineering, 2021, 9, 12520-12529.	3.2	21
3	Exfoliation Behavior of Large Anionic Graphite Flakes in Liquid Produced by Salt-Assisted Ball Milling. Processes, 2020, 8, 28.	1.3	6
4	Experimental study on drilling of jute fiber reinforced polymer composites. Journal of Composite Materials, 2019, 53, 283-295.	1.2	72
5	Mass production of low-boiling point solvent- and water-soluble graphene by simple salt-assisted ball milling. Nanoscale Advances, 2019, 1, 4955-4964.	2.2	14
6	Direct exfoliation of layered materials in low-boiling point solvents using weak acid salts. Carbon, 2019, 142, 261-268.	5.4	13
7	Mechanochemical reaction using weak acid salts enables dispersion and exfoliation of nanomaterials in polar solvents. Journal of Materials Science, 2019, 54, 4546-4558.	1.7	3
8	Diffusion kinetics, swelling, and degradation of corrosion-resistant C-glass/epoxy woven composites in harsh environments. Composite Structures, 2018, 202, 686-694.	3.1	22
9	Simultaneous sound velocity and thickness measurement by the ultrasonic pitch-catch method for corrosion-layer-forming polymeric materials. Ultrasonics, 2018, 82, 178-187.	2.1	13
10	Influence of network structure on the degradation of poly(ether)amine-cured epoxy resins by inorganic acid. Polymer Degradation and Stability, 2018, 157, 153-159.	2.7	10
11	Effect of graphite structures on the productivity and quality of few-layer graphene in liquid-phase exfoliation. Journal of Materials Science, 2018, 53, 12807-12815.	1.7	45
12	Production of Nanosheets with High Aspect Ratio in Liquid Process. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2018, 26, 20-24.	0.0	0
13	Efficient solvent systems for improving production of few-layer graphene in liquid phase exfoliation. Carbon, 2017, 118, 18-24.	5.4	72
14	Degradation behavior and lifetime estimation of fiber reinforced plastics tanks for hydrochloric acid storage. Engineering Failure Analysis, 2017, 79, 971-979.	1.8	9
15	Composites and Nanocomposites Based on Renewable and Sustainable Materials. International Journal of Polymer Science, 2016, 2016, 1-2.	1.2	2
16	Mass production of high-aspect-ratio few-layer-graphene by high-speed laminar flow. Carbon, 2016, 102, 330-338.	5.4	70
17	The optimization of Blister Disk geometry for mixing performance in co-rotating twin-screw extruder. AIP Conference Proceedings, 2015, , .	0.3	2
18	The improvement in functional characteristics of eco-friendly composites made of natural rubber and cellulose. AIP Conference Proceedings, 2015, , .	0.3	0

#	ARTICLE	IF	CITATIONS
19	Dimensional stability of epoxy-based and cyanate-based carbon fiber-reinforced plastics. <i>Journal of Composite Materials</i> , 2015, 49, 1483-1492.	1.2	7
20	Effect of screw design on fiber breakage and dispersion in injection-molded long glass-fiber-reinforced polypropylene. <i>Journal of Composite Materials</i> , 2015, 49, 75-84.	1.2	49
21	High-rate production of few-layer graphene by high-power probe sonication. <i>Carbon</i> , 2015, 95, 802-808.	5.4	68
22	Strength improvement in injection-molded jute-fiber-reinforced polylactide green-composites. <i>Composites Part B: Engineering</i> , 2015, 68, 200-206.	5.9	95
23	Optimization of Screw Design on Fiber Breakage and Dispersion in Injection Molded Bamboo-Fiber-Reinforced Polypropylene. <i>Kobunshi Ronbunshu</i> , 2014, 71, 38-46.	0.2	1
24	Influence of Mesostructure for Deformation Characteristics and Formability in Dual Phase Steels. <i>Procedia Engineering</i> , 2014, 81, 1372-1377.	1.2	0
25	Optimized Design of Strengthening Structure with Hat-Shaped Cross-Section by Carrying out Buckling Test. <i>Key Engineering Materials</i> , 2014, 627, 61-64.	0.4	0
26	Improvement on fire retardancy of wood flour/polypropylene composites using various fire retardants. <i>Polymer Degradation and Stability</i> , 2014, 100, 79-85.	2.7	88
27	Synergy Effects of Wood Flour and Fire Retardants in Flammability of Wood-plastic Composites. <i>Energy Procedia</i> , 2014, 56, 48-56.	1.8	31
28	Effect of Screw Geometry on Fiber Length and Dispersion in FRTP During Injection Molding. <i>Seikei-Kakou</i> , 2014, 26, 276-285.	0.0	1
29	Mechanical properties of injection-molded carbon fiber/polypropylene composites hybridized with nanofillers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 19-26.	3.8	74
30	Comparison of Cellulose, Talc, and Mica as Filler in Natural Rubber Composites on Vibration-Damping and Gas Barrier Properties. <i>Advanced Materials Research</i> , 2013, 844, 318-321.	0.3	12
31	Study on the Exfoliation of Nanoclay Using High Speed Flow in Narrow Tube. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013, 79, 1239-1251.	0.2	1
32	Time-Dependent Deformation of CFRP Quasi-Isotropic Laminates Caused by Relaxation of Thermal Residual Stress and Physical Aging. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013, 79, 950-960.	0.2	1
33	Experimental study on impact tensile property of glass fiber. <i>Advanced Composite Materials</i> , 2012, 21, 165-175.	1.0	9
34	Experimental Study on Impact Tensile Property of Glass Fiber. <i>Journal of the Japan Society for Composite Materials</i> , 2012, 38, 137-143.	0.1	3
35	Strain-rate dependence of the tensile strength of glass fibers. <i>Journal of Materials Science</i> , 2012, 47, 4895-4903.	1.7	21
36	Simple method for obtaining viscoelastic parameters of polymeric materials by incorporating physical-aging effects. <i>Mechanics of Time-Dependent Materials</i> , 2012, 16, 169-180.	2.3	8

#	ARTICLE	IF	CITATIONS
37	Prediction of Time-Dependent Dimensional Change Induced by Thermal Residual Stress Relaxation in CFRP Cross-Ply Laminates. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 1238-1246.	0.2	1
38	Out-of-Plane Deformation due to the Ply Angle Misalignment in CFRP Laminates (The Effect of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Japan Society of Mechanical Engineers, Part A, 2011, 77, 619-628.	0.2	8
39	Effect of ply angle misalignment on out-of-plane deformation of symmetrical cross-ply CFRP laminates: Accuracy of the ply angle alignment. Composite Structures, 2011, 93, 1225-1230.	3.1	37
40	Time-dependent deformation of surface geometry on light weight and thermally stable CFRP mirror in humid environment. , 2010, , .		3
41	High Accurate Space Telescope Mirror Made by Light and Thermally Stable CFRP. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1540-1549.	0.5	6
42	Residual Stress Relaxation in CFRP Cross-ply Laminate. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1595-1604.	0.5	8
43	Analysis of Thermal Deformation on a Honeycomb Sandwich CFRP Mirror. Mechanics of Advanced Materials and Structures, 2010, 17, 328-334.	1.5	27
44	Analysis of time-dependent deformation of a CFRP mirror under hot and humid conditions. Mechanics of Time-Dependent Materials, 2009, 13, 183-197.	2.3	19
45	Time-dependent out-of-plane deformation of UD-CFRP in humid environment. Composites Science and Technology, 2009, 69, 1720-1725.	3.8	24
46	Transverse crack growth behavior considering free-edge effect in quasi-isotropic CFRP laminates under high-cycle fatigue loading. Composites Science and Technology, 2009, 69, 1388-1393.	3.8	30
47	Development of space telescope mirror made by light and thermally stable CFRP. Proceedings of SPIE, 2009, , .	0.8	1
48	Monitoring of internal residual strain changes in CFRP using FBG sensors. , 2009, , .		0
49	Analysis of Time-Dependent Deformation of CFRP Considering the Anisotropy of Moisture Diffusion. Advanced Composite Materials, 2008, 17, 359-372.	1.0	16
50	Dimensional Change of CFRP Taking Account of Moisture Concentration. Journal of the Japan Society for Composite Materials, 2008, 34, 95-101.	0.1	3
51	High-cycle fatigue characteristics of quasi-isotropic CFRP laminates. Advanced Composite Materials, 2007, 16, 151-166.	1.0	37
52	Improvement of the Functionalities of Natural Rubber/Cellulose Composites Using Epoxidized Natural Rubber. Advanced Materials Research, 0, 1110, 51-55.	0.3	2