

Rajesh Kumar Prusty

List of Publications by Citations

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77
papers

995
citations

18
h-index

28
g-index

85
ext. papers

1,321
ext. citations

2.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
77	Mechanical performance of CNT-filled glass fiber/epoxy composite in in-situ elevated temperature environments emphasizing the role of CNT content. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 364-376	8.4	104
76	Reinforcement effect of graphene oxide in glass fibre/epoxy composites at in-situ elevated temperature environments: An emphasis on graphene oxide content. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 95, 40-53	8.4	78
75	Effect of post-curing on thermal and mechanical behavior of GFRP composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 75, 012012	0.4	64
74	Mechanical behavior of Graphene decorated carbon fiber reinforced polymer composites: An assessment of the influence of functional groups. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 122, 36-44	8.4	57
73	CNT/polymer interface in polymeric composites and its sensitivity study at different environments. <i>Advances in Colloid and Interface Science</i> , 2017 , 240, 77-106	14.3	50
72	Flexural behaviour of CNT-filled glass/epoxy composites in an in-situ environment emphasizing temperature variation. <i>Composites Part B: Engineering</i> , 2015 , 83, 166-174	10	46
71	Structure-mechanical property correlations in mechanochromic luminescent crystals of boron difluoride dibenzoylmethane derivatives. <i>IUCrJ</i> , 2015 , 2, 611-9	4.7	40
70	Mechanical, thermomechanical, and creep performance of CNT embedded epoxy at elevated temperatures: An emphasis on the role of carboxyl functionalization. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	28
69	Evaluation of the role of functionalized CNT in glass fiber/epoxy composite at above- and sub-zero temperatures: Emphasizing interfacial microstructures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 215-226	8.4	27
68	Creep behaviour prediction of multi-layer graphene embedded glass fiber/epoxy composites using time-temperature superposition principle. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 507-518	8.4	26
67	An assessment of flexural performance of liquid nitrogen conditioned glass/epoxy composites with multiwalled carbon nanotube. <i>Journal of Composite Materials</i> , 2016 , 50, 3077-3088	2.7	25
66	Experimental optimization of flexural behaviour through inter-ply fibre hybridization in FRP composite. <i>Construction and Building Materials</i> , 2016 , 118, 327-336	6.7	24
65	Mechanical behaviour of graphene oxide embedded epoxy nanocomposite at sub- and above- zero temperature environments. <i>Composites Communications</i> , 2017 , 3, 47-50	6.7	22
64	In-situ elevated temperature flexural and creep response of inter-ply glass/carbon hybrid FRP composites. <i>Mechanics of Materials</i> , 2017 , 105, 99-111	3.3	22
63	Creep behaviour of graphite oxide nanoplates embedded glass fiber/epoxy composites: Emphasizing the role of temperature and stress. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 102, 166-177	8.4	22
62	Effects of temperature and load on the creep performance of CNT reinforced laminated glass fiber/epoxy composites. <i>International Journal of Mechanical Sciences</i> , 2019 , 150, 539-547	5.5	22
61	Temperature dependent reinforcement efficiency of carbon nanotube in polymer composite. <i>Composites Communications</i> , 2016 , 1, 29-32	6.7	18

60	Water-induced degradations in MWCNT embedded glass fiber/epoxy composites: An emphasis on aging temperature. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45987	2.9	18
59	Influence of cryogenic temperature on mechanical behavior of graphene carboxyl grafted carbon fiber reinforced polymer composites: An emphasis on concentration of nanofillers. <i>Composites Communications</i> , 2020 , 20, 100369	6.7	17
58	Creep performance of CNT reinforced glass fiber/epoxy composites: Roles of temperature and stress. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47674	2.9	16
57	Effects of acid, alkaline, and seawater aging on the mechanical and thermomechanical properties of glass fiber/epoxy composites filled with carbon nanofibers. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48434	2.9	16
56	Effect of loading rate on tensile properties and failure behavior of glass fibre/epoxy composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 115, 012017	0.4	16
55	Correlations between mechanical and photoluminescence properties in Eu doped sodium bismuth titanate. <i>Solid State Communications</i> , 2013 , 173, 38-41	1.6	14
54	Effects of carbon nanotube/polymer interfacial bonding on the long-term creep performance of nanophased glass fiber/epoxy composites. <i>Polymer Composites</i> , 2020 , 41, 478-493	3	13
53	Improving delamination resistance of carbon fiber reinforced polymeric composite by interface engineering using carbonaceous nanofillers through electrophoretic deposition: An assessment at different in-service temperatures. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50208	2.9	13
52	Lifetime Prediction of Nano-Silica based Glass Fibre/Epoxy composite by Time Temperature Superposition Principle. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 338, 012020	0.4	11
51	Tensile behavior of MWCNT enhanced glass fiber reinforced polymeric composites at various crosshead speeds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 178, 012006	0.4	10
50	Effects of electrophoretic deposition process parameters on the mechanical properties of graphene carboxyl-grafted carbon fiber reinforced polymer composite. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48925	2.9	10
49	Enhanced barrier, mechanical and viscoelastic properties of graphene oxide embedded glass fibre/epoxy composite for marine applications. <i>Construction and Building Materials</i> , 2021 , 268, 121784	6.7	10
48	Effect of nanosilica and nanoclay reinforcement on flexural and thermal properties of glass fiber/epoxy composites. <i>Materials Today: Proceedings</i> , 2020 , 33, 5098-5102	1.4	9
47	A comparative study of the mechanical performance of Glass and Glass/Carbon hybrid polymer composites at different temperature environments. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 75, 012002	0.4	9
46	Interface modification of carbon fiber reinforced epoxy composite by hydroxyl/carboxyl functionalized carbon nanotube. <i>Materials Today: Proceedings</i> , 2020 , 27, 1473-1478	1.4	8
45	Effect of CNT addition on cure kinetics of glass fiber/epoxy composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 338, 012003	0.4	8
44	Improved mechanical responses of GFRP composites with epoxy-vinyl ester interpenetrating polymer network. <i>Polymer Testing</i> , 2021 , 93, 107008	4.5	8
43	Mechanical and thermal behaviour of multi-layer graphene and nanosilica reinforced glass Fiber/Epoxy composites. <i>Materials Today: Proceedings</i> , 2020 , 33, 5184-5189	1.4	7

42	Water absorption behavior and residual strength assessment of glass/epoxy and glass-carbon/epoxy hybrid composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 115, 012029	0.4	7
41	Enhancement of mechanical properties of glass fiber reinforced vinyl ester composites by embedding multi-walled carbon nanotubes through solution processing technique. <i>Materials Today: Proceedings</i> , 2020 , 27, 1045-1050	1.4	6
40	Mechanical modelling and experimental validation of woven composites. <i>Materials Today: Proceedings</i> , 2020 , 27, 2640-2644	1.4	6
39	Effect of repeated hydrothermal cycling on the durability of glass fiber/epoxy composites with and without carbon nanotube reinforcement. <i>Polymer Composites</i> , 2021 , 42, 6160	3	5
38	Effect of graphene-based nanofillers addition on the interlaminar performance of CFRP composites: An assessment of cryo-conditioning. <i>Materials Today: Proceedings</i> , 2020 , 33, 5070-5075	1.4	4
37	Development of advanced fiber-reinforced polymer composites by polymer hybridization technique: Emphasis on cure kinetics, mechanical, and thermomechanical performance. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49318	2.9	4
36	Mechanical and thermal performance of recycled glass fiber reinforced epoxy composites embedded with carbon nanotubes. <i>Materials Today: Proceedings</i> , 2020 , 33, 5029-5034	1.4	4
35	Effects of seawater absorption and desorption on the long-term creep performance of graphene oxide embedded glass fiber/epoxy composites. <i>Polymer Composites</i> , 2020 , 41, 4861-4871	3	4
34	Effect of ultraviolet radiations on interlaminar shear strength and thermal properties of glass fiber/epoxy composites. <i>Materials Today: Proceedings</i> , 2021 , 43, 524-529	1.4	4
33	An assessment of mechanical behavior of glass fiber/epoxy composites with secondary short carbon fiber reinforcements. <i>Journal of Applied Polymer Science</i> , 51841	2.9	3
32	Interlaminar performance of graphene carboxyl modified CFRP composites: Effect of cryogenic conditioning. <i>Materials Today: Proceedings</i> , 2020 , 27, 1516-1521	1.4	3
31	Effects of fiber surface grafting by functionalized carbon nanotubes on the interfacial durability during cryogenic testing and conditioning of CFRP composites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51231	2.9	3
30	Mechanical behavior of electrophoretically modified CFRP composites at elevated temperatures: An assessment of the influence of graphene carboxyl bath concentration. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51365	2.9	3
29	Temperature and loading speed sensitivity of glass/carbon inter-ply hybrid polymer composites on tensile loading. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49928	2.9	3
28	Strength degradation and fractographic analysis of carbon fiber reinforced polymer composite laminates with square / circular hole using scanning electron microscope micrographs. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49878	2.9	3
27	Effect of severely thermal shocked MWCNT enhanced glass fiber reinforced polymer composite: An emphasis on tensile and thermal responses. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 338, 012057	0.4	3
26	Interfacial behavior of graphene carboxyl-grafted carbon fiber reinforced polymer composites at elevated temperatures: Emphasis on the effect of electrophoretic deposition time. <i>Polymer Composites</i> , 2021 , 42, 5893	3	3
25	Influence of loading rate on adhesively bonded Tin-glass/epoxy single lap joint. <i>Materials Today: Proceedings</i> , 2020 , 26, 1850-1854	1.4	2

24	A study of the effect of carbon nanotube/nanoclay binary nanoparticle reinforcement on glass fibre/epoxy composites. <i>Materials Today: Proceedings</i> , 2020 , 26, 2026-2031	1.4	2
23	Mode I interlaminar fracture toughness improvement of the glass/epoxy composite by using multiscale composite approach. <i>Materials Today: Proceedings</i> , 2020 , 33, 5328-5333	1.4	2
22	Effect of severely thermal shocked nano-Al ₂ O ₃ filled glass fiber reinforced polymeric composites: An assessment on tensile, thermal and morphological behaviour. <i>Materials Today: Proceedings</i> , 2020 , 33, 5521-5525	1.4	2
21	Extrapolation of Mechanical Strengthening Effect in Nanoclay/Epoxy Nanocomposites to Elevated Temperature Environments. <i>Transactions of the Indian Institute of Metals</i> , 2018 , 71, 2015-2024	1.2	2
20	Synergetic Impact of Carbon Nanotube and/or Graphene Reinforcement on the Mechanical Performance of Glass Fiber/Epoxy Composite. <i>Materials Science Forum</i> , 978 , 284-290	0.4	2
19	Effect of cure kinetics and nanomaterials on glass fiber/vinyl ester composites: An assessment on mechanical, thermal and fracture morphology. <i>Materials Today: Proceedings</i> , 2020 , 33, 4937-4941	1.4	2
18	Evaluation of mechanical behaviour of graphene oxide grafted CFRP composites: a comparison of anodic and cathodic EPD. <i>Advances in Materials and Processing Technologies</i> , 1-9	0.8	2
17	A novel study of flexural behavior of short glass fibers as secondary reinforcements in GFRP composite. <i>Materials Today: Proceedings</i> , 2021 , 47, 3370-3370	1.4	2
16	Mechanical properties of glass/carbon inter-ply hybrid polymer composites at different in-situ temperatures. <i>Materials Today: Proceedings</i> , 2021 , 39, 1192-1197	1.4	2
15	Multimaterial laminated composites: An assessment of effect of stacking sequence on flexural response. <i>Materials Today: Proceedings</i> , 2021 , 44, 141-145	1.4	2
14	Enhanced creep resistance of GFRP composites through interpenetrating polymer network. <i>International Journal of Mechanical Sciences</i> , 2021 , 212, 106728	5.5	2
13	Recent advancements in interface engineering of carbon fiber reinforced polymer composites and their durability studies at different service temperatures. <i>Polymer Composites</i> ,	3	2
12	Effect of in-situ temperature variation on mechanical response of glass/vinyl ester composites. <i>Materials Today: Proceedings</i> , 2020 , 27, 1142-1146	1.4	1
11	Experimental amelioration of flexural behavior under cryogenic conditioning through inter-ply fiber hybridization in FRP composites. <i>Materials Today: Proceedings</i> , 2020 , 27, 1618-1624	1.4	1
10	Investigation of adhesively bonded multi-material joints: An assessment on joint efficiency and fracture morphology. <i>Materials Today: Proceedings</i> , 2020 , 27, 1180-1185	1.4	1
9	Functionalization of Carbon Nanotube 2021 , 1-41		1
8	Effects of Cryogenic Aging on Flexural Behavior of Advanced Inter-ply Hybrid Fiber-Reinforced Polymer Composites. <i>Transactions of the Indian Institute of Metals</i> , 2021 , 74, 2171-2183	1.2	1
7	Effect of Post-Cathodic EPD Acetone Washing of Carbon Fibres on the Mechanical Properties of Graphene Carboxyl Embedded CFRP Composites. <i>Transactions of the Indian Institute of Metals</i> , 1	1.2	1

6	Finite element modelling and experimentation of plain weave glass/epoxy composites under high strain-rate compression loading for estimation of Johnson-Cook model parameters. <i>International Journal of Impact Engineering</i> , 2022 , 104262	4	1
5	Spherical indentation response of a Ni double gyroid nanolattice. <i>Scripta Materialia</i> , 2020 , 188, 64-68	5.6	0
4	Investigation of Elastic Properties of Rutile Titanium Dioxide from First Principles. <i>Springer Proceedings in Materials</i> , 2021 , 203-210	0.2	0
3	Through-Thickness High Strain Rate Compressive Response of Glass/Epoxy-Laminated Composites Embedded with Randomly Oriented Discontinuous Carbon Fibers. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 103-111	0.4	0
2	Effect of Bath Concentration during Electrophoretic Deposition on the Interfacial Behaviour of Hybrid CFRP Composites. <i>Materials Science Forum</i> , 2020 , 978, 304-310	0.4	
1	An Assessment of Mechanical Performance of CNF Modified Glass Fiber/Epoxy Composites under Elevated Temperatures. <i>Materials Science Forum</i> , 2020 , 978, 311-315	0.4	