

Hsu-Chiang Kuan

List of Publications by Year in descending order

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85
papers

5,391
citations

76196

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82410

72
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86
docs citations

86
times ranked

5740
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of polymer nanocomposites containing multi-walled carbon nanotubes and graphene nanoplatelets. <i>Nano Materials Science</i> , 2022, 4, 185-204.	3.9	35
2	Epoxy/graphene nanocomposites prepared by in-situ microwaving. <i>Carbon</i> , 2021, 177, 271-281.	5.4	25
3	A facile approach to the scalable preparation of thermoplastic/carbon nanotube composites. <i>Nanotechnology</i> , 2020, 31, 195706.	1.3	8
4	A new method for preparation of functionalized graphene and its epoxy nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 196, 108096.	5.9	41
5	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. <i>Nanotechnology</i> , 2019, 30, 385703.	1.3	30
6	Improving Thermal Stability of Polyurethane through the Addition of Hyperbranched Polysiloxane. <i>Polymers</i> , 2019, 11, 697.	2.0	32
7	Development of flame-retarding elastomeric composites with high mechanical performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 257-266.	3.8	26
8	Polymer composite hydrogels containing carbon nanomaterials—Morphology and mechanical and functional performance. <i>Progress in Polymer Science</i> , 2018, 77, 1-18.	11.8	101
9	Filling natural microtubules with triphenyl phosphate for flame-retarding polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 115, 247-254.	3.8	25
10	Preparation of expandable graphite and its flame retardant properties in HDPE composites. <i>Polymer Composites</i> , 2017, 38, 2378-2386.	2.3	12
11	Novel polyacrylamide hydrogels by highly conductive, water-processable graphene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 93, 1-9.	3.8	26
12	Preparation and Flame Retardance of Polyurethane Composites Containing Microencapsulated Melamine Polyphosphate. <i>Polymers</i> , 2017, 9, 407.	2.0	20
13	Preparation, characterization of microencapsulated ammonium polyphosphate and its flame retardancy in polyurethane composites. <i>Materials Chemistry and Physics</i> , 2016, 173, 205-212.	2.0	39
14	Electrically conductive, mechanically robust, pH-sensitive graphene/polymer composite hydrogels. <i>Composites Science and Technology</i> , 2016, 127, 119-126.	3.8	99
15	PEDOT-based composites as electrode materials for supercapacitors. <i>Nanotechnology</i> , 2016, 27, 042001.	1.3	113
16	Facile Fabrication of Graphene Membranes with Readily Tunable Structures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13745-13757.	4.0	39
17	Smart thin-film piezoelectric composite sensors based on high lead zirconate titanate content. <i>Structural Health Monitoring</i> , 2015, 14, 214-227.	4.3	16
18	Preparation, characterization, and flame retardance of high-density polyethylene/sulfur-free expandable graphite composites. <i>High Performance Polymers</i> , 2014, 26, 798-809.	0.8	5

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19	Toughening polymer adhesives using nanosized elastomeric particles. <i>Journal of Materials Research</i> , 2014, 29, 665-674.	1.2	29
20	Preparation of expandable graphite via ozone-hydrothermal process and flame-retardant properties of high-density polyethylene composites. <i>High Performance Polymers</i> , 2014, 26, 34-42.	0.8	5
21	Nanosilica-toughened polymer adhesives. <i>Materials & Design</i> , 2014, 61, 75-86.	5.1	50
22	Development of polymer composites using modified, high-structural integrity graphene platelets. <i>Composites Science and Technology</i> , 2014, 91, 82-90.	3.8	136
23	Effect of interface modification on PMMA/graphene nanocomposites. <i>Journal of Materials Science</i> , 2014, 49, 5838-5849.	1.7	28
24	Preparation and properties of novel epoxy/graphene oxide nanosheets (GON) composites functionalized with flame retardant containing phosphorus and silicon. <i>Materials Chemistry and Physics</i> , 2014, 146, 354-362.	2.0	72
25	Processable 3-nm thick graphene platelets of high electrical conductivity and their epoxy composites. <i>Nanotechnology</i> , 2014, 25, 125707.	1.3	119
26	Study on thermal degradation and flame retardant property of halogen-free polypropylene composites using XPS and cone calorimeter. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1084-1091.	1.3	30
27	A novel approach to electrically and thermally conductive elastomers using graphene. <i>Polymer</i> , 2013, 54, 3663-3670.	1.8	124
28	Covalently bonded interfaces for polymer/graphene composites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4255.	5.2	163
29	Melt compounding with graphene to develop functional, high-performance elastomers. <i>Nanotechnology</i> , 2013, 24, 165601.	1.3	124
30	Preparation, Characterization, Thermal, and Flame-Retardant Properties of Green Silicon-Containing Epoxy/Functionalized Graphene Nanosheets Composites. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-10.	1.5	22
31	Synthesis, characterization, and properties of silane-functionalized expandable graphite composites. <i>Journal of Composite Materials</i> , 2012, 46, 1483-1496.	1.2	10
32	Preparation, thermal stability and flame-retardant properties of halogen-free polypropylene composites. <i>High Performance Polymers</i> , 2012, 24, 478-487.	0.8	20
33	From carbon nanotubes and silicate layers to graphene platelets for polymer nanocomposites. <i>Nanoscale</i> , 2012, 4, 4578.	2.8	181
34	Preparation of expandable graphite via H ₂ O ₂ -hydrothermal process and its effect on properties of high-density polyethylene composites. <i>Polymer Composites</i> , 2012, 33, 872-880.	2.3	25
35	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2012, 22, 2735-2743.	7.8	244
36	Preparation, thermal stability and electrical properties of PMMA/functionalized graphene oxide nanosheets composites. <i>Materials Chemistry and Physics</i> , 2012, 134, 677-685.	2.0	64

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37	Effect of maleic anhydride modified MWCNTs on the morphology and dynamic mechanical properties of its PMMA composites. <i>Materials Chemistry and Physics</i> , 2011, 129, 1214-1220.	2.0	29
38	Preparation of expandable graphite using a hydrothermal method and flame-retardant properties of its halogen-free flame-retardant HDPE composites. <i>Journal of Polymer Research</i> , 2011, 18, 483-488.	1.2	35
39	Fabrication, Structure and Properties of Epoxy/Metal Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 465-474.	1.7	54
40	Interface-tuned epoxy/clay nanocomposites. <i>Polymer</i> , 2011, 52, 497-504.	1.8	76
41	Epoxy/graphene platelets nanocomposites with two levels of interface strength. <i>Polymer</i> , 2011, 52, 1603-1611.	1.8	466
42	Preparation, characterization, and thermal stability of novel PMMA/expandable graphite halogen-free flame retardant composites. <i>Polymer Composites</i> , 2010, 31, 18-24.	2.3	16
43	Preparation and characterization of carbon nanotubes/epoxy resin nano-prepreg for nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 431-435.	1.9	13
44	Flame retardance and thermal stability of carbon nanotube epoxy composite prepared from sol-gel method. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 539-543.	1.9	120
45	A reactive polymer for toughening epoxy resin. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3265-3272.	1.3	51
46	Structure-property relations of 55nm particle-toughened epoxy. <i>Polymer</i> , 2010, 51, 4867-4879.	1.8	105
47	Recycled PCB flour reinforced linear low-density polyethylene composites enhanced by water cross-linking reaction. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 169-177.	0.8	0
48	Synthesis, characterization, and thermal stability of PMMA/SiO ₂ /TiO ₂ tertiary nanocomposites via non-hydrolytic sol-gel method. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1959-1965.	1.3	26
49	Development of a novel toughener for epoxy resins. <i>Polymer International</i> , 2009, 58, 838-845.	1.6	58
50	Mechanical and electrical properties of multi-wall carbon nanotube/poly(lactic acid) composites. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1395-1398.	1.9	126
51	Multi-walled carbon nanotube reinforced poly (l-lactic acid) nanocomposites enhanced by water-crosslinking reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1399-1402.	1.9	47
52	Molecular motion, morphology, and thermal properties of multiwall carbon nanotube/polysilsesquioxane composite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 472-482.	2.4	16
53	Synthesis, characterization, flame retardance and thermal properties of halogen-free expandable graphite/PMMA composites prepared from sol-gel method. <i>Polymer Degradation and Stability</i> , 2008, 93, 1357-1363.	2.7	40
54	Effect of inorganic nanoparticles on mechanical property, fracture toughness and toughening mechanism of two epoxy systems. <i>Polymer</i> , 2008, 49, 3510-3523.	1.8	238

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55	EFFECT OF POWDER SURFACE CHARGE ON THE RHEOLOGICAL BEHAVIORS OF POWDERPOLYMER BLENDS. Journal of Polymer Engineering, 2007, 27, .	0.6	0
56	Preparation and thermal, electrical, and morphological properties of multiwalled carbon nanotubeand epoxy composites. Journal of Applied Polymer Science, 2007, 103, 1272-1278.	1.3	110
57	Preparation, morphology and properties of acid and amine modified multiwalled carbon nanotube/polyimide composite. Composites Science and Technology, 2007, 67, 2564-2573.	3.8	229
58	The preparation of carbon nanotube/linear low density polyethylene composites by a water-crosslinking reaction. Materials Letters, 2007, 61, 2744-2748.	1.3	27
59	Mechanical, thermal and morphological properties of water-crosslinked wood flour reinforced linear low-density polyethylene composites. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1696-1707.	3.8	59
60	Sulfonated poly(ether ether ketone)/poly(vinylpyrrolidone) acid-base polymer blends for direct methanol fuel cell application. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 565-572.	2.4	54
61	Morphology, electrical resistance, electromagnetic interference shielding and mechanical properties of functionalized MWNT and poly(urea urethane) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1096-1105.	2.4	46
62	Preparation and characterization of the novel water-crosslinked cellulose reinforced poly(butylene) Tj ETQqO O 0 rgBT/Overlock 10 Tf 50	3.8	46
63	Polystyrene nanocomposite materialsâ€™Preparation, mechanical, electrical and thermal properties, and morphology. Journal of Applied Polymer Science, 2006, 100, 508-515.	1.3	64
64	Flame retardancy and nondripping properties of ammonium polyphosphate/poly(butylene succinate) composites enhanced by water crosslinking. Journal of Applied Polymer Science, 2006, 102, 2935-2945.	1.3	25
65	Study on the Polydimethylsiloxane Polyurethane Modified Novolac Type Epoxy Precursor for Manufacturing Carbonâ€™Carbon Composites. Journal of Composite Materials, 2006, 40, 717-731.	1.2	2
66	Synthesis, thermal, mechanical and rheological properties of multiwall carbon nanotube/waterborne polyurethane nanocomposite. Composites Science and Technology, 2005, 65, 1703-1710.	3.8	373
67	Thermal and mechanical properties of silane-grafted water crosslinked polyethylene. Journal of Applied Polymer Science, 2005, 96, 2383-2391.	1.3	58
68	Polystyrene nanocomposite materials: Preparation, morphology, and mechanical, electrical, and thermal properties. Journal of Applied Polymer Science, 2005, 98, 2266-2273.	1.3	34
69	A New Strategy to Exfoliate Silicone Rubber/Clay Nanocomposites. Macromolecular Rapid Communications, 2005, 26, 830-833.	2.0	61
70	Synthesis and characterization of polysilicic acid nanoparticles/waterborne polyurethane nanocomposite. Journal of Materials Science, 2005, 40, 6063-6070.	1.7	25
71	Synthesis and characterization of a clay/waterborne polyurethane nanocomposite. Journal of Materials Science, 2005, 40, 179-185.	1.7	41
72	Hydrogen bonding, mechanical properties, and surface morphology of clay/waterborne polyurethane nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1-12.	2.4	47

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73	Preparation and electromagnetic interference shielding characteristics of novel carbon-nanotube/siloxane/poly-(urea urethane) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 345-358.	2.4	79
74	Hydrogen-bonding, crystallinity, and morphological properties of poly(silicic acid)/waterborne polyurethane nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1076-1089.	2.4	4
75	Molecular mobility of free-radical-functionalized carbon-nanotube/siloxane/poly(urea urethane) nanocomposites. Journal of Polymer Science Part A, 2005, 43, 6084-6094.	2.5	50
76	Preparation and Properties of Toughened Novolac Type Phenolic/SiO ₂ Flame Retardant Nanocomposite. , 2004, , 742-747.		0
77	Synthesis, Thermal Properties and Flame Retardance of Novel Phenolic Resin/Silica Nanocomposites. , 2004, , 748-753.		0
78	Processability, Thermal, Mechanical, and Morphological Properties of Novolac Type-Epoxy Resin-Based Carbon-Carbon Composite. Journal of Composite Materials, 2004, 38, 311-320.	1.2	8
79	Preparation, electrical, mechanical and thermal properties of composite bipolar plate for a fuel cell. Journal of Power Sources, 2004, 134, 7-7.	4.0	15
80	Title is missing!. Journal of Materials Science, 2003, 38, 3933-3944.	1.7	10
81	Effects of swelling agents on the crystallization behavior and mechanical properties of polyamide 6/clay nanocomposites. Journal of Applied Polymer Science, 2003, 88, 1686-1693.	1.3	55
82	Thermo-oxidative degradation of novel epoxy containing silicon and phosphorous nanocomposites. European Polymer Journal, 2003, 39, 825-830.	2.6	47
83	Preparation, characterization, and properties of novolac-type phenolic/SiO ₂ hybrid organic-inorganic nanocomposite materials by sol-gel method. Journal of Polymer Science Part A, 2003, 41, 905-913.	2.5	131
84	Effects of molecular weight and molecular structure of low profile additives on the properties of bulk molding compound (BMC). Polymer Engineering and Science, 2003, 43, 989-998.	1.5	9
85	Processability, morphology and mechanical properties of wood flour reinforced high density polyethylene composites. Plastics, Rubber and Composites, 2003, 32, 122-126.	0.9	27