

Tai-Rong Kuang

List of Publications by Year in descending order

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88
papers

4,165
citations

125106

35
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134545

62
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88
all docs

88
docs citations

88
times ranked

5783
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile structural manipulation strategy to prepare ultra-strong, super-tough, and thermally stable polylactide/nucleating agent composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 948-959.	9.9	46
2	A facile approach to fabricate load-bearing porous polymer scaffolds for bone tissue engineering. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1376-1384.	9.9	34
3	Pressure-induced flow processing behind the superior mechanical properties and heat-resistance performance of poly(butylene succinate). <i>E-Polymers</i> , 2022, 22, 156-164.	1.3	7
4	External flow-induced highly oriented and dense nanohybrid shish-kebabs: A strategy for achieving high performance in poly (lactic acid) composites. <i>Composites Communications</i> , 2022, 29, 101042.	3.3	26
5	Enhanced aging resistance of poly($\hat{\mu}$ -caprolactone)/brewersâ€™ spent grain composites. <i>Polimery</i> , 2022, 67, 3-12.	0.4	4
6	A comparison study of hyaluronic acid hydrogel exquisite micropatterns with photolithography and light-cured inkjet printing methods. <i>E-Polymers</i> , 2022, 22, 332-341.	1.3	2
7	Eco-friendly biodegradable polymers: Sustainable future. <i>Polymers From Renewable Resources</i> , 2022, 13, 71-79.	0.8	6
8	Highly sensitive large strain cellulose/multiwalled carbon nanotubes (MWCNTs)/thermoplastic polyurethane (TPU) nanocomposite foams: From design to performance evaluation. <i>Journal of Supercritical Fluids</i> , 2022, 188, 105653.	1.6	14
9	Recent advances in biofluid detection with micro/nanostructured bioelectronic devices. <i>Nanoscale</i> , 2021, 13, 3436-3453.	2.8	12
10	Conductive thermoplastic polyurethane nanocomposite foams derived from a cellulose/MWCNTs aerogel framework: simultaneous enhancement of piezoresistance, strength, and endurance. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13103-13114.	2.7	30
11	Incorporation and optimization of RGO and GO in SSBR/NR composites expands their applicability. <i>Polymers and Polymer Composites</i> , 2021, 29, S411-S421.	1.0	2
12	A CRISPR/Cas13a-powered catalytic electrochemical biosensor for successive and highly sensitive RNA diagnostics. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113027.	5.3	87
13	Superior mechanical performance of in-situ nanofibrillar HDPE/PTFE composites with highly oriented and compacted nanohybrid shish-kebab structure. <i>Composites Science and Technology</i> , 2021, 207, 108715.	3.8	17
14	MoS ₂ nanosheets uniformly grown on polyphosphazene-derived carbon nanospheres for lithium-ion batteries. <i>Surfaces and Interfaces</i> , 2021, 24, 101034.	1.5	5
15	Preparation and properties of thermoplastic polyurethane foams with bimodal structure based on TPU/PDMS blends. <i>Journal of Supercritical Fluids</i> , 2021, 177, 105324.	1.6	13
16	High sound insulation property of prepared polypropylene/polyolefin elastomer blends by combining pressure-induced-flow processing and supercritical CO ₂ foaming. <i>Composites Communications</i> , 2021, 28, 100958.	3.3	2
17	Intravesical Hydrogels as Drug Reservoirs. <i>Trends in Biotechnology</i> , 2020, 38, 579-583.	4.9	83
18	Fluorescence detection of Escherichia coli on mannose modified ZnTe quantum dots. <i>Chinese Chemical Letters</i> , 2020, 31, 1504-1507.	4.8	35

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19	Fabrication of bimodal open-porous poly (butylene succinate)/cellulose nanocrystals composite scaffolds for tissue engineering application. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1164-1173.	3.6	52
20	Heteroatoms-doped 3D carbon nanosphere cages embedded with MoS ₂ for lithium-ion battery. <i>Electrochimica Acta</i> , 2020, 332, 135490.	2.6	25
21	Enhanced osseointegration of double network hydrogels via calcium polyphosphate incorporation for bone regeneration. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 1126-1132.	3.6	26
22	Facile fabrication of fully biodegradable and biorenewable poly (lactic acid)/poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td excellent heat resistance. <i>Polymer Degradation and Stability</i> , 2020, 171, 109044.	2.7	33
23	Synthesis of low toxicity metal-organic framework carrier for drug release. <i>Materials Express</i> , 2020, 10, 934-941.	0.2	4
24	Combined treatments of fiber surface etching/silane-coupling for enhanced mechanical strength of aramid fiber-reinforced rubber blends. <i>Materials Chemistry and Physics</i> , 2020, 255, 123486.	2.0	41
25	High-strength, flexible and cycling-stable piezo-resistive polymeric foams derived from thermoplastic polyurethane and multi-wall carbon nanotubes. <i>Composites Part B: Engineering</i> , 2020, 199, 108279.	5.9	68
26	Rotational Molding of Linear Low-Density Polyethylene Composites Filled with Wheat Bran. <i>Polymers</i> , 2020, 12, 1004.	2.0	44
27	Lightweight multifunctional polypropylene/carbon nanotubes/carbon black nanocomposite foams with segregated structure, ultralow percolation threshold and enhanced electromagnetic interference shielding performance. <i>Composites Science and Technology</i> , 2020, 193, 108116.	3.8	110
28	Synergetic effect of nanoclay and nano-CaCO ₃ hybrid filler systems on the foaming properties and cellular structure of polystyrene nanocomposite foams using supercritical CO ₂ . <i>Frontiers in Forests and Global Change</i> , 2020, 39, 185-202.	0.6	5
29	Effect of dynamic oscillation shear flow intensity on the mechanical and morphological properties of high-density polyethylene: An integrated experimental and molecular dynamics simulation study. <i>Polymer Testing</i> , 2019, 80, 106122.	2.3	11
30	Fabrication of Poly(butylene succinate)/Carbon Black Nanocomposite Foams with Good Electrical Conductivity and High Strength by a Supercritical CO ₂ Foaming Process. <i>Polymers</i> , 2019, 11, 1852.	2.0	34
31	Bi-phase fire-resistant polyethylenimine/graphene oxide/melanin coatings using layer by layer assembly technique: Smoke suppression and thermal stability of flexible polyurethane foams. <i>Polymer</i> , 2019, 170, 65-75.	1.8	51
32	High performance high-density polyethylene/hydroxyapatite nanocomposites for load-bearing bone substitute: fabrication, in vitro and in vivo biocompatibility evaluation. <i>Composites Science and Technology</i> , 2019, 175, 100-110.	3.8	50
33	High-performance porous PLLA-based scaffolds for bone tissue engineering: Preparation, characterization, and in vitro and in vivo evaluation. <i>Polymer</i> , 2019, 180, 121707.	1.8	81
34	Light-triggered pH/thermal multisensitive polyelectrolyte/ITO glass hybrid electrode. <i>Applied Surface Science</i> , 2019, 464, 273-279.	3.1	7
35	MoS ₂ decorated lignin-derived hierarchical mesoporous carbon hybrid nanospheres with exceptional Li-ion battery cycle stability. <i>Chinese Chemical Letters</i> , 2019, 30, 197-202.	4.8	36
36	Enhanced sound insulation and mechanical properties based on inorganic fillers/thermoplastic elastomer composites. <i>Journal of Thermoplastic Composite Materials</i> , 2019, 32, 936-950.	2.6	13

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37	A facile approach towards fabrication of lightweight biodegradable poly (butylene succinate)/carbon fiber composite foams with high electrical conductivity and strength. <i>Composites Science and Technology</i> , 2018, 159, 171-179.	3.8	74
38	Double network hydrogel for tissue engineering. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1520.	3.3	104
39	Synthesis of DOPO-HQ-functionalized graphene oxide as a novel and efficient flame retardant and its application on polylactic acid: Thermal property, flame retardancy, and mechanical performance. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 267-278.	5.0	99
40	Polyamide 6 modified polypropylene with remarkably enhanced mechanical performance, thermal properties, and foaming ability via pressure-induced flow processing approach. <i>Advances in Polymer Technology</i> , 2018, 37, 2721-2729.	0.8	18
41	Lignin-derived hierarchical mesoporous carbon and NiO hybrid nanospheres with exceptional Li-ion battery and pseudocapacitive properties. <i>Electrochimica Acta</i> , 2018, 274, 288-297.	2.6	51
42	Formation of stretched fibrils and nanohybrid shish-kebabs in isotactic polypropylene-based nanocomposites by application of a dynamic oscillatory shear. <i>Chemical Engineering Journal</i> , 2018, 348, 546-556.	6.6	33
43	Lab-on-a-Chip Platforms for Biophysical Studies of Cancer with Single-Cell Resolution. <i>Trends in Biotechnology</i> , 2018, 36, 549-561.	4.9	33
44	Preparation, Properties, and Applications of Graphene-Based Hydrogels. <i>Frontiers in Chemistry</i> , 2018, 6, 450.	1.8	56
45	Ultrasonic processing of MWCNT nanopaper reinforced polymeric nanocomposites. <i>Polymer</i> , 2018, 156, 85-94.	1.8	26
46	Patchable micro/nanodevices interacting with skin. <i>Biosensors and Bioelectronics</i> , 2018, 122, 189-204.	5.3	47
47	Electrospun poly (butylene succinate)/cellulose nanocrystals bio-nanocomposite scaffolds for tissue engineering: Preparation, characterization and in vitro evaluation. <i>Polymer Testing</i> , 2018, 71, 101-109.	2.3	79
48	Scale-up production of lightweight high-strength polystyrene/carbonaceous filler composite foams with high-performance electromagnetic interference shielding. <i>Materials Letters</i> , 2018, 230, 157-160.	1.3	51
49	Morphological Structure, Rheological Behavior, Mechanical Properties and Sound Insulation Performance of Thermoplastic Rubber Composites Reinforced by Different Inorganic Fillers. <i>Polymers</i> , 2018, 10, 276.	2.0	37
50	Ultra-strong, tough and high wear resistance high-density polyethylene for structural engineering application: A facile strategy towards using the combination of extensional dynamic oscillatory shear flow and ultra-high-molecular-weight polyethylene. <i>Composites Science and Technology</i> , 2018, 167, 301-312.	3.8	29
51	DNA-Coded Fluorescence for Color Painting RNAs. <i>CheM</i> , 2018, 4, 1194-1196.	5.8	5
52	Polystyrene/multi-wall carbon nanotube composite and its foam assisted by ultrasound vibration. <i>Journal of Cellular Plastics</i> , 2017, 53, 273-285.	1.2	5
53	Photoresponsive polyelectrolyte/mesoporous silica hybrid materials with remote-controllable ionic transportation. <i>Chemical Engineering Journal</i> , 2017, 322, 445-453.	6.6	12
54	Poly (propylene carbonate)-based in situ nanofibrillar biocomposites with enhanced miscibility, dynamic mechanical properties, rheological behavior and extrusion foaming ability. <i>Composites Part B: Engineering</i> , 2017, 123, 112-123.	5.9	62

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55	Synthetic Melanin E-Ink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16553-16560.	4.0	39
56	Superior Impact Toughness and Excellent Storage Modulus of Poly(lactic acid) Foams Reinforced by Shish-Kebab Nanoporous Structure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21071-21076.	4.0	69
57	Synthesis and characterization of lignosulfonate-derived hierarchical porous graphitic carbons for electrochemical performances. <i>Microporous and Mesoporous Materials</i> , 2017, 247, 184-189.	2.2	21
58	Strength and modulus improvement of wet-spun cellulose I filaments by sequential physical and chemical cross-linking. <i>Materials and Design</i> , 2017, 136, 45-53.	3.3	33
59	ZIF-8-Based Membranes for Carbon Dioxide Capture and Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11204-11214.	3.2	129
60	Improved crystallizability and processability of ultra high molecular weight polyethylene modified by poly(amido amine) dendrimers. <i>Polymer Engineering and Science</i> , 2017, 57, 153-160.	1.5	15
61	Molecular Beacon Nano-Sensors for Probing Living Cancer Cells. <i>Trends in Biotechnology</i> , 2017, 35, 347-359.	4.9	58
62	Facile preparation of open-cellular porous poly (l-lactic acid) scaffold by supercritical carbon dioxide foaming for potential tissue engineering applications. <i>Chemical Engineering Journal</i> , 2017, 307, 1017-1025.	6.6	193
63	Glass coating on SiCp/Al composite mirror for ultra-smooth surface. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 1745-1753.	1.5	5
64	Hierarchical Structured Polymeric Materials in Nanotechnology. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-2.	1.2	0
65	Nanofabrication: Controllable Large-Scale Transfection of Primary Mammalian Cardiomyocytes on a Nanochannel Array Platform (Small 43/2016). <i>Small</i> , 2016, 12, 5914-5914.	5.2	1
66	Enhanced strength and foamability of high-density polyethylene prepared by pressure-induced flow and low-temperature crosslinking. <i>RSC Advances</i> , 2016, 6, 34422-34427.	1.7	18
67	Effect of Nanoclay on Natural Fiber/Polymer Composites. <i>Engineering Materials</i> , 2016, , 175-207.	0.3	0
68	Facile preparation of lightweight high-strength biodegradable polymer/multi-walled carbon nanotubes nanocomposite foams for electromagnetic interference shielding. <i>Carbon</i> , 2016, 105, 305-313.	5.4	374
69	Heteroatom-doped carbon dots: synthesis, characterization, properties, photoluminescence mechanism and biological applications. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7204-7219.	2.9	396
70	Controllable Large-Scale Transfection of Primary Mammalian Cardiomyocytes on a Nanochannel Array Platform. <i>Small</i> , 2016, 12, 5971-5980.	5.2	64
71	Functional exosome-mimic for delivery of siRNA to cancer: in vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2016, 243, 160-171.	4.8	152
72	Supercritical CO ₂ foaming of pressure-induced-flow processed linear polypropylene. <i>Materials and Design</i> , 2016, 93, 509-513.	3.3	43

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73	PEG/heparin-decorated lipid-polymer hybrid nanoparticles for long-circulating drug delivery. RSC Advances, 2016, 6, 23279-23287.	1.7	28
74	3D nanochannel electroporation for high-throughput cell transfection with high uniformity and dosage control. Nanoscale, 2016, 8, 243-252.	2.8	88
75	Enhanced Photocatalysis of Yttrium-Doped TiO ₂ /D-PVA Composites: Degradation of Methyl Orange (MO) and PVC Film. Science of Advanced Materials, 2016, 8, 1286-1292.	0.1	6
76	Recent Progress in Dendrimer-based Gene Delivery Systems. Current Organic Chemistry, 2016, 20, 1820-1826.	0.9	16
77	Delivery of Nanoparticles for Treatment of Brain Tumor. Current Drug Metabolism, 2016, 17, 745-754.	0.7	65
78	Enzyme-responsive Nanoparticles for Anticancer Drug Delivery. Current Nanoscience, 2015, 12, 38-46.	0.7	50
79	Effect of Poly(butylene succinate) on Poly(lactic acid) Foaming Behavior: Formation of Open Cell Structure. Industrial & Engineering Chemistry Research, 2015, 54, 6199-6207.	1.8	84
80	Preparation of SiCp/Al composite bismuthate glass material and its application in mirror blanks. RSC Advances, 2015, 5, 52167-52173.	1.7	7
81	Fabrication of Poly(lactic acid)/Graphene Oxide Foams with Highly Oriented and Elongated Cell Structure via Unidirectional Foaming Using Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2015, 54, 758-768.	1.8	124
82	Preparation of polymeric superhydrophobic surfaces and analysis of their wettability. Heat and Mass Transfer, 2015, 51, 1437-1444.	1.2	2
83	Polyelectrolyte/mesoporous silica hybrid materials for the high performance multiple-detection of pH value and temperature. Polymer Chemistry, 2015, 6, 3529-3536.	1.9	39
84	Effect of nanoporous structure and polymer brushes on the ionic conductivity of poly(methacrylic) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.7	24
85	Fabrication of high strength PA6/PP blends with pressure-induced-flow processing. Materials Chemistry and Physics, 2015, 164, 1-5.	2.0	21
86	Effect of heat-treatment on stress relief and dimensional stability behavior of SiCp/Al composite with high SiC content. Materials and Design, 2015, 86, 508-515.	3.3	31
87	Simultaneous reinforcing and toughening of high impact polystyrene with a novel processing method of loop oscillating push-pull molding. Materials Letters, 2014, 123, 55-58.	1.3	12
88	Effect of poly(ethylene glycol) on the properties and foaming behavior of macroporous poly(lactic) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.3	21