Tzong-Yuan Juang

List of Publications by Year
in descending order

51	1,197	331259 21	414034 32
papers	citations	h-index	g-index

53	53	53	1550
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon Nanodot Additives Realize Highâ€Performance Airâ€Stable pâ€“iâ€“n Perovskite Solar Cells Providing Efficiencies of up to 20.2%. Advanced Energy Materials, 2018, 8, 1802323.	10.2	86
2	Enhanced efficiency of organic and perovskite photovoltaics from shape-dependent broadband plasmonic effects of silver nanoplates. Solar Energy Materials and Solar Cells, 2015, 140, 224-231.	3.0	77
3	Preparation of Proteinâ^'Silicate Hybrids from Polyamine Intercalation of Layered Montmorillonite. Langmuir, 2007, 23, 1995-1999.	1.6	62
4	Single-Layered Graphene Oxide Nanosheet/Polyaniline Hybrids Fabricated Through Direct Molecular Exfoliation. Langmuir, 2011, 27, 14563-14569.	1.6	58
5	Synthesis and properties of new water-soluble aliphatic hyperbranched poly(amido acids) with high pH-dependent photoluminescence. Polymer, 2013, 54, 623-630.	1.8	50
6	First halogen and phosphorus-free, flame-retardant benzoxazine thermosets derived from main-chain type bishydroxydeoxybenzoin-based benzoxazine polymers. Polymer, 2018, 154, 35-41.	1.8	46
7	Preparation of clay/epoxy nanocomposites by layered-double-hydroxide initiated self-polymerization. Polymer, 2008, 49, 4796-4801.	1.8	44
8	Synthesis ofN-aryl azetidine-2,4-diones and polymalonamides prepared from selective ring-opening reactions. Journal of Applied Polymer Science, 2007, 103, 3591-3599.	1.3	42
9	Synthesis and montmorillonite-intercalated behavior of dendritic surfactants. Journal of Materials Chemistry, 2006, 16, 2056.	6.7	41
10	Intercalation of layered double hydroxides by poly(oxyalkylene)-amidocarboxylates: tailoring layered basal spacing. Polymer, 2004, 45, 7887-7893.	1.8	36
11	The reaction of activated esters with epoxides for self-curable, highly flexible, A₂B₂- and A₃B₃-type epoxy compounds. Polymer Chemistry, 2019, 10, 3983-3995.	1.9	35
12	High-performance bio-based benzoxazines derived from phosphinated biphenols and furfurylamine. European Polymer Journal, 2018, 108, 48-56.	2.6	33
13	Organo-clay hybrids based on dendritic molecules: preparation and characterization. Nanotechnology, 2007, 18, 205606.	1.3	27
14	Using a breath-figure method to self-organize honeycomb-like polymeric films from dendritic side-chain polymers. Materials Chemistry and Physics, 2011, 128, 157-165.	2.0	26
15	Individual graphene oxide platelets through direct molecular exfoliation with globular amphiphilic hyperbranched polymers. Polymer Chemistry, 2012, 3, 1249.	1.9	26
16	Cytotoxicity and cell imaging of six types of carbon nanodots prepared through carbonization and hydrothermal processing of natural plant materials. RSC Advances, 2021, 11, 16661-16674.	1.7	26
17	Surface-Functionalized Hyperbranched Poly(Amido Acid) Magnetic Nanocarriers for Covalent Immobilization of a Bacterial Î³-Glutamyltranspeptidase. Molecules, 2014, 19, 4997-5012.	1.7	25
18	Optical Nonâ€Linearity from Montmorillonite Intercalated with a Chromophoreâ€Containing Dendritic Structure: A Selfâ€Assembly Approach. Macromolecular Rapid Communications, 2008, 29, 587-592.	2.0	23

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19	Organic/Metallic Nanohybrids Based on Amphiphilic Dumbbell-Shaped Dendrimers. ACS Applied Materials & Interfaces, 2012, 4, 1897-1908.	4.0	23
20	Highly Efficient Inverted Organic Photovoltaics Containing Aliphatic Hyperbranched Polymers as Cathode Modified Layers. Macromolecules, 2016, 49, 7837-7843.	2.2	23
21	Production of D-P-HYDROXYPHENYLGLYCINE BY N-CARBAMOYL-D-amino Acid Amidohydrolase-Overproducing Escherichia coli Strains. Biotechnology Progress, 1999, 15, 603-607.	1.3	22
22	Using Dicyclopentadiene-Derived Polyarylates as Epoxy Curing Agents To Achieve High T_g and Low Dielectric Epoxy Thermosets. ACS Omega, 2018, 3, 4295-4305.	1.6	22
23	Sequential self-repetitive reaction toward wholly aromatic polyimides with highly stable optical nonlinearity. Polymer Chemistry, 2011, 2, 685-693.	1.9	21
24	Degradation of Thermal-Mechanically Stable Epoxy Thermosets, Recycling of Carbon Fiber, and Reapplication of the Degraded Products. ACS Sustainable Chemistry and Engineering, 2021, 9, 5304-5314.	3.2	21
25	Nanoscale organic/inorganic hybrids based on self-organized dendritic macromolecules on montmorillonites. Applied Clay Science, 2010, 48, 103-110.	2.6	20
26	Honeycomb-like polymeric films from dendritic polymers presenting reactive pendent moieties. Polymer, 2014, 55, 1481-1490.	1.8	19
27	Orderly Arranged NLO Materials Based on Chromophore-Containing Dendrons on Exfoliated Layered Templates. ACS Applied Materials & Interfaces, 2009, 1, 2371-2381.	4.0	18
28	Nonlinear optical, poly(amide-imide)â€“clay nanocomposites comprising an azobenzene moiety synthesised via sequential self-repetitive reaction. Dyes and Pigments, 2009, 82, 76-83.	2.0	17
29	Low-Dissipation Thermosets Derived from Oligo(2,6-Dimethyl Phenylene Oxide)-Containing Benzoxazines. Polymers, 2018, 10, 411.	2.0	17
30	High-Tg, Low-Dielectric Epoxy Thermosets Derived from Methacrylate-Containing Polyimides. Polymers, 2018, 10, 27.	2.0	16
31	Synthesis and Properties of Quinoxaline-Containing Benzoxazines and Polybenzoxazines. ACS Omega, 2019, 4, 9092-9101.	1.6	15
32	Tailored thermal and mechanical properties of epoxy resins prepared using multiply hydrogenâ€bonding reactive modifiers. Journal of Applied Polymer Science, 2011, 120, 2411-2420.	1.3	14
33	Preparation of Supramolecular Extenders with Precise Chain Lengths via Iterative Synthesis and Their Applications in Polyurethane Elastomers. Macromolecules, 2012, 45, 5358-5370.	2.2	14
34	Facile immobilization of Bacillus licheniformis Î³-glutamyltranspeptidase onto graphene oxide nanosheets and its application to the biocatalytic synthesis of Î³-l-glutamyl peptides. International Journal of Biological Macromolecules, 2018, 117, 1326-1333.	3.6	14
35	A reactive modifier that enhances the thermal mechanical properties of epoxy resin through the formation of multiple hydrogen-bonded network. Journal of Polymer Research, 2011, 18, 1169-1176.	1.2	13
36	Influence of Temperature on the Formation of Silver Nanoparticles by using a Seedâ€Free Photochemical Method under Sodiumâ€Lamp Irradiation. ChemPhysChem, 2015, 16, 3254-3263.	1.0	13

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37	Carbonized Bambooâ€Derived Carbon Nanodots as Efficient Cathode Interfacial Layers in Highâ€Performance Organic Photovoltaics. Advanced Materials Interfaces, 2018, 5, 1800031.	1.9	13
38	Phosphinated Poly(aryl ether)s with Acetic/Phenyl Methacrylic/Vinylbenzyl Ether Moieties for High-T_g and Low-Dielectric Thermosets. ACS Omega, 2018, 3, 6031-6038.	1.6	12
39	Co-Immobilization of Xylanase and Scaffolding Protein onto an Immobilized Metal Ion Affinity Membrane. Catalysts, 2020, 10, 1408.	1.6	12
40	Stable second-order NLO semi-IPN system based on bipyridine-containing polyimide and alkoxysilane dye. Polymers for Advanced Technologies, 2005, 16, 515-523.	1.6	11
41	Thermally stable hyperbranched nonlinear optical polyimides using an â€œA2+B3â€•approach. Materials Chemistry and Physics, 2011, 127, 107-113.	2.0	10
42	Exfoliation of layered silicates through in situ controlled free radical polymerization mediated by a silicate-anchored initiator. Polymer Chemistry, 2011, 2, 2341.	1.9	8
43	Enhanced surfactin production via the addition of layered double hydroxides. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 10-15.	2.7	8
44	Shaking Rate during Production Affects the Activity of Escherichia coli Surface-Displayed Candida antarctica Lipase A. Catalysts, 2020, 10, 382.	1.6	8
45	High-performance thermosets derived from acetovanillone-based reactive polyethers. Polymer, 2018, 151, 307-315.	1.8	7
46	Poly(urethane/malonamide) dendritic structures featuring blocked/deblocked isocyanate units. Polymer Chemistry, 2011, 2, 1139-1145.	1.9	6
47	Dendronized organicâ€“inorganic nonlinear optical hybrid materials with homogeneous morphology. Synthetic Metals, 2009, 159, 1852-1858.	2.1	5
48	Perovskite Solar Cells: Carbon Nanodot Additives Realize Highâ€Performance Airâ€Stable pâ€“iâ€“n Perovskite Solar Cells Providing Efficiencies of up to 20.2% (Adv. Energy Mater. 34/2018). Advanced Energy Materials, 2018, 8, 1870147.	10.2	3
49	Mg-Fe Layered Double Hydroxides Enhance Surfactin Production in Bacterial Cells. Crystals, 2019, 9, 355.	1.0	3
50	A fermentation process for the in situ intercalation of surfactin into layered double hydroxides. Applied Clay Science, 2019, 182, 105247.	2.6	3
51	Non-Conventional Fluorescence and Cytotoxicity of Two Aliphatic Hyperbranched Polymer Dots Having Poly(amic acid) Structures: Implications for Labeling Nanodrug Carriers. ACS Omega, 2021, 6, 33159-33170.	1.6	2