

Xiao-Yan Tang

List of Publications by Year in descending order

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35
papers

1,812
citations

331670

21
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

2607
citing authors

#	ARTICLE	IF	CITATIONS
1	Packaging materials with desired mechanical and barrier properties and full chemical recyclability. <i>Nature Communications</i> , 2019, 10, 3559.	12.8	245
2	Toward Infinitely Recyclable Plastics Derived from Renewable Cyclic Esters. <i>CheM</i> , 2019, 5, 284-312.	11.7	239
3	Chronic exposure to air pollution particles increases the risk of obesity and metabolic syndrome: findings from a natural experiment in Beijing. <i>FASEB Journal</i> , 2016, 30, 2115-2122.	0.5	181
4	The Quest for Converting Biorenewable Bifunctional ϵ -Methylene- δ -butyrolactone into Degradable and Recyclable Polyester: Controlling Vinyl-Addition/Ring-Opening/Cross-Linking Pathways. <i>Journal of the American Chemical Society</i> , 2016, 138, 14326-14337.	13.7	132
5	Stereosequenced crystalline polyhydroxyalkanoates from diastereomeric monomer mixtures. <i>Science</i> , 2019, 366, 754-758.	12.6	125
6	Chemical synthesis of perfectly isotactic and high melting bacterial poly(3-hydroxybutyrate) from bio-sourced racemic cyclic diolide. <i>Nature Communications</i> , 2018, 9, 2345.	12.8	115
7	Evidence for the Importance of Atmospheric Nitrogen Deposition to Eutrophic Lake Dianchi, China. <i>Environmental Science & Technology</i> , 2017, 51, 6699-6708.	10.0	80
8	Upgrading of Bio-Oil Using Supercritical 1-Butanol over a Ru/C Heterogeneous Catalyst: Role of the Solvent. <i>Energy & Fuels</i> , 2014, 28, 4611-4621.	5.1	75
9	ϵ -Nonstrained δ -Butyrolactone-Based Copolyesters: Copolymerization Characteristics and Composition-Dependent (Thermal, Eutectic, Cocrystallization, and Degradation) Properties. <i>Macromolecules</i> , 2017, 50, 8469-8479.	4.8	65
10	Ozone source attribution during a severe photochemical smog episode in Beijing, China. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1270-1280.	0.8	64
11	Biodegradable Polyhydroxyalkanoates by Stereoselective Copolymerization of Racemic Diolides: Stereocontrol and Polyolefin-Like Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7881-7890.	13.8	56
12	Proton-Transfer Polymerization by N-Heterocyclic Carbenes: Monomer and Catalyst Scopes and Mechanism for Converting Dimethacrylates into Unsaturated Polyesters. <i>Journal of the American Chemical Society</i> , 2016, 138, 2021-2035.	13.7	51
13	Transcriptional responses of earthworm (<i>Eisenia fetida</i>) exposed to naphthenic acids in soil. <i>Environmental Pollution</i> , 2015, 204, 264-270.	7.5	37
14	Developmental toxicity and endocrine disruption of naphthenic acids on the early life stage of zebrafish (<i>Danio rerio</i>). <i>Journal of Applied Toxicology</i> , 2015, 35, 1493-1501.	2.8	34
15	Ethylene polymerisation and ethylene/norbornene copolymerisation by using aryloxo-modified vanadium(v) complexes containing 2,6-difluoro-, dichloro-phenylimido complexes. <i>Dalton Transactions</i> , 2015, 44, 12273-12281.	3.3	34
16	Heterogeneous reaction of formaldehyde on the surface of TiO ₂ particles. <i>Science China Chemistry</i> , 2010, 53, 2644-2651.	8.2	33
17	Synthesis of (Imido)vanadium(V) Complexes Containing 8-(2,6-Dimethylanilide)-5,6,7-trihydroquinoline Ligands: Highly Active Catalyst Precursors for Ethylene Dimerization. <i>Organometallics</i> , 2014, 33, 1053-1060.	2.3	28
18	Highly efficient ethylene/norbornene copolymerization by $\text{Ti}(\text{phenyl})\text{phosphanylphenolate}$ -based half-sandwich titanocene complexes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1585-1594.	2.3	25

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19	Toughening Biodegradable Isotactic Poly(3-hydroxybutyrate) via Stereoselective Copolymerization of a Diolide and Lactones. <i>Macromolecules</i> , 2021, 54, 9401-9409.	4.8	25
20	Photolysis of surface O ₃ and production potential of OH radicals in the atmosphere over the Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	23
21	Random copolymers of propylene with 1,5-hexadiene containing only cyclopentane units in main chain and tailoring structure and mechanical properties of the copolymers. <i>Polymer</i> , 2011, 52, 3053-3058.	3.8	22
22	Disruption of endocrine function in H295R cell in vitro and in zebrafish in vivo by naphthenic acids. <i>Journal of Hazardous Materials</i> , 2015, 299, 1-9.	12.4	21
23	Quantification and characterization of naphthenic acids in soils from oil exploration areas in China by GC/MS. <i>Analytical Methods</i> , 2015, 7, 2149-2154.	2.7	18
24	Links between the optical properties and chemical compositions of brown carbon chromophores in different environments: Contributions and formation of functionalized aromatic compounds. <i>Science of the Total Environment</i> , 2021, 786, 147418.	8.0	16
25	Monochloro non-bridged half-metallocene-type zirconium complexes containing phosphine oxide-(thio)phenolate chelating ligands as efficient ethylene polymerization catalysts. <i>Dalton Transactions</i> , 2013, 42, 499-506.	3.3	13
26	Synthesis and characterization of novel titanium complexes bearing [ONX]-type η^2 -enaminoketonato ligands and their application to ethylene (co)polymerization. <i>Dalton Transactions</i> , 2012, 41, 7390.	3.3	11
27	Biodegradable Polyhydroxyalkanoates by Stereoselective Copolymerization of Racemic Diolides: Stereocontrol and Polyolefin-Like Properties. <i>Angewandte Chemie</i> , 2020, 132, 7955-7964.	2.0	9
28	Synthesis and characterization of phosphine-(thio)phenolate-based half-zirconocenes and their application in ethylene (co-)polymerization. <i>Dalton Transactions</i> , 2014, 43, 222-230.	3.3	7
29	Development of science and policy related to acid deposition in East Asia over 30 years. <i>Ambio</i> , 2022, 51, 1800-1818.	5.5	7
30	Development and deployment of an instrument for measurement of atmospheric peroxy radical by chemical amplification. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 333-340.	0.9	6
31	Oxidative damage of naphthenic acids on the <i>isenia fetida</i> earthworm. <i>Environmental Toxicology</i> , 2016, 31, 1337-1343.	4.0	6
32	Organocatalytic Coupling of Bromo-Lactide with Cyclic Ethers and Carbonates to Chiral Bromo-Diesters: NHC or Anion Catalysis?. <i>ACS Catalysis</i> , 2017, 7, 3929-3933.	11.2	4
33	Phosphine-Thiophenolate Half-Titanocene Chlorides: Synthesis, Structure, and Their Application in Ethylene (Co-)Polymerization. <i>Catalysts</i> , 2013, 3, 261-275.	3.5	3
34	Chemical Synthesis of Polyhydroxyalkanoates via Metal-Catalyzed Ring-Opening Polymerization of Cyclic Esters. <i>Advances in Polymer Science</i> , 2022, , 305-325.	0.8	2
35	Protocol of Chondrogenesis of BMSC to Chondrocyte Using Chitosan-Modified Poly(L-Lactide-co- μ -Caprolactone) Scaffolds. <i>Manuals in Biomedical Research</i> , 2014, , 49-58.	0.0	0