

Tianwei Tan

List of Publications by Year in descending order

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30
papers

1,535
citations

471509

17
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

2188
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of chitosan-TiO ₂ composite film with efficient antimicrobial activities under visible light for food packaging applications. <i>Carbohydrate Polymers</i> , 2017, 169, 101-107.	10.2	292
2	Third-generation biorefineries as the means to produce fuels and chemicals from CO ₂ . <i>Nature Catalysis</i> , 2020, 3, 274-288.	34.4	245
3	Synergistic enhancement of electrocatalytic CO ₂ reduction to C ₂ oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020, 15, 131-137.	31.5	169
4	Hierarchical Micro- and Mesoporous Zn-Based Metal-Organic Frameworks Templated by Hydrogels: Their Use for Enzyme Immobilization and Catalysis of Knoevenagel Reaction. <i>Small</i> , 2019, 15, e1902927.	10.0	108
5	Enzymatic production of alkyl esters through alcoholysis: A critical evaluation of lipases and alcohols. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2005, 82, 341-347.	1.9	93
6	Biosorption of Metal Ions with <i>Penicillium chrysogenum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2003, 104, 119-128.	2.9	73
7	Structural basis of ubiquitin modification by the <i>Legionella</i> effector SdeA. <i>Nature</i> , 2018, 557, 674-678.	27.8	69
8	Enzymatic production of fatty acid alkyl esters with a lipase preparation from <i>Candida</i> sp. 99-125. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 727-734.	1.5	68
9	Antibacterial and anti-mildew behavior of chitosan/nano-TiO ₂ composite emulsion. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1434-1438.	2.7	43
10	Quantification of Solvent Contribution to the Stability of Noncovalent Complexes. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4542-4551.	5.3	37
11	Cooperative Binding of Cyclodextrin Dimers to Isoflavone Analogues Elucidated by Free Energy Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7163-7173.	3.1	35
12	Co-fermentation of a mixture of glucose and xylose to fumaric acid by <i>Rhizopus arrhizus</i> RH 7 - 13-9#. <i>Bioresource Technology</i> , 2017, 233, 30-33.	9.6	32
13	Metabolite-based mutualism enhances hydrogen production in a two-species microbial consortium. <i>Communications Biology</i> , 2019, 2, 82.	4.4	32
14	Generalized Born and Explicit Solvent Models for Free Energy Calculations in Organic Solvents: Cyclodextrin Dimerization. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5103-5113.	5.3	31
15	<i>In situ</i> bottom-up growth of metal-organic frameworks in a crosslinked poly(ethylene oxide) layer with ultrahigh loading and superior uniform distribution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20293-20301.	10.3	28
16	Production of fumaric acid by immobilized <i>Rhizopus arrhizus</i> RH 7-13-9# on loofah fiber in a stirred-tank reactor. <i>Bioresource Technology</i> , 2017, 244, 929-933.	9.6	26
17	Genetic manipulation of <i>Escherichia coli</i> central carbon metabolism for efficient production of fumaric acid. <i>Bioresource Technology</i> , 2018, 270, 96-102.	9.6	24
18	Enhancing trimethylolpropane esters synthesis through lipase immobilized on surface hydrophobic modified support and appropriate substrate feeding methods. <i>Enzyme and Microbial Technology</i> , 2014, 58-59, 60-67.	3.2	17

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19	pH-sensitive IPN hydrogel based on poly (aspartic acid) and poly (vinyl alcohol) for controlled release. <i>Polymer Bulletin</i> , 2013, 70, 2815-2827.	3.3	14
20	Preparation of hydrolytic liquid from dried distiller's grains with solubles and fumaric acid fermentation by <i>Rhizopus arrhizus</i> RH 7-13. <i>Journal of Environmental Management</i> , 2017, 201, 172-176.	7.8	14
21	Low-Temperature Dehydration of Ethanol to Ethylene over Cu ²⁺ -Zeolite Catalysts Synthesized from Cu ²⁺ -Tetraethylenepentamine. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17300-17306.	3.7	14
22	Poly(aspartic acid) Super-Absorbent Resin Produced by Chemical Crosslinking and Physical Freeze/Thawing. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1297-1305.	2.2	13
23	Double-functional characteristics of a surface molecular imprinted adsorbent with immobilization of nano-TiO ₂ . <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1797-1802.	3.2	11
24	Lipase-catalyzed esterification of lactic acid with straight-chain alcohols. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2005, 82, 881-885.	1.9	10
25	Efficient production of chemicals from microorganism by metabolic engineering and synthetic biology. <i>Chinese Journal of Chemical Engineering</i> , 2021, 30, 14-28.	3.5	9
26	Selective conversion of acetone to mesitylene over tantalum phosphate catalysts. <i>Chemical Communications</i> , 2022, 58, 2862-2865.	4.1	9
27	<i>In situ</i> synthesis of poly(ether ester) via direct polycondensation of terephthalic acid and 1,3-propanediol with sulfonic acids as catalysts. <i>Polymer Chemistry</i> , 2019, 10, 3629-3638.	3.9	8
28	Optimization of the preparation of a poly(aspartic acid) superabsorbent resin with response surface methodology. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2616-2622.	2.6	5
29	Live Steam-Pretreatment and Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Engineering Science</i> , 2013, 30, 546-554.	1.6	3
30	Direct Utilization of Non-pretreated Hydrolytic Liquid of Dried Distiller's Grains with Solubles for Bio-Ethanol by <i>Rhizopus arrhizus</i> RH 7-13-9#. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 590-596.	2.9	3