

Ikuo Taniguchi

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,626
citations

758635

12
h-index

610482

24
g-index

27
all docs

27
docs citations

27
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycine amino acid transformation under impacts by small solar system bodies, simulated via high-pressure torsion method. <i>Scientific Reports</i> , 2022, 12, 5677.	1.6	3
2	Piperazine-immobilized polymeric membranes for CO ₂ capture: mechanism of preferential CO ₂ permeation. <i>Polymer Journal</i> , 2021, 53, 129-136.	1.3	13
3	Ideonella sakaiensis, PETase, and MHETase: From identification of microbial PET degradation to enzyme characterization. <i>Methods in Enzymology</i> , 2021, 648, 187-205.	0.4	44
4	Assembly of Defect-Free Microgel Nanomembranes for CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30030-30038.	4.0	18
5	Computational approach for investigating the mechanism of carbon dioxide interaction by 2-(2-aminoethylamino)ethanol: A significant role of water molecule. <i>Chemical Physics Letters</i> , 2021, 783, 139070.	1.2	4
6	Fine-tuning of the surface porosity of micropatterned polyethersulfone membranes prepared by phase separation micromolding. <i>Polymer Journal</i> , 2020, 52, 397-403.	1.3	10
7	Effect of Alkali Treatment on the Mechanical Properties of Anion-Exchange Membranes with a Poly(vinyl Chloride) Backing and Binder. <i>Membranes</i> , 2020, 10, 344.	1.4	5
8	Biodegradation of PET: Current Status and Application Aspects. <i>ACS Catalysis</i> , 2019, 9, 4089-4105.	5.5	349
9	Biodegradation of waste PET. <i>EMBO Reports</i> , 2019, 20, e49365.	2.0	66
10	A strategy to enhance CO ₂ permeability of well-defined hyper-branched polymers with dense polyoxyethylene comb graft. <i>Journal of Membrane Science</i> , 2017, 535, 239-247.	4.1	12
11	Low Energy CO ₂ Capture by Electrodialysis. <i>Energy Procedia</i> , 2017, 114, 1615-1620.	1.8	10
12	Effect of amine structure on CO ₂ capture by polymeric membranes. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 950-958.	2.8	21
13	CO ₂ capture by polymeric membranes composed of hyper-branched polymers with dense poly(oxyethylene) comb and poly(amidoamine). <i>Open Physics</i> , 2017, 15, 662-670.	0.8	5
14	Response to Comment on "A bacterium that degrades and assimilates poly(ethylene terephthalate)". <i>Science</i> , 2016, 353, 759-759.	6.0	48
15	CO ₂ Capture, Transportation, and Storage Technology. , 2016, , 343-358.		3
16	Low-Temperature Processable Block Copolymers That Preserve the Function of Blended Proteins. <i>Biomacromolecules</i> , 2016, 17, 2466-2471.	2.6	13
17	A bacterium that degrades and assimilates poly(ethylene terephthalate). <i>Science</i> , 2016, 351, 1196-1199.	6.0	1,773
18	Preparation of well-defined hyper-branched polymers and the CO ₂ separation performance. <i>Journal of Membrane Science</i> , 2016, 502, 124-132.	4.1	10

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19	A compatible crosslinker for enhancement of CO ₂ capture of poly(amidoamine) dendrimer-containing polymeric membranes. <i>Journal of Membrane Science</i> , 2015, 475, 175-183.	4.1	35
20	Preferential CO ₂ Separation over H ₂ with Poly(amidoamine) Dendrimer-Containing Polymeric Membrane. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1660, 1.	0.1	0
21	An Alternative Carbon Dioxide Capture by Electrochemical Method. <i>Chemistry Letters</i> , 2014, 43, 1601-1603.	0.7	6
22	Effect of the phase-separated structure on CO ₂ separation performance of the poly(amidoamine) dendrimer immobilized in a poly(ethylene glycol) network. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14514.	5.2	24
23	A CO ₂ -selective molecular gate of poly(amidoamine) dendrimer immobilized in a poly(ethylene glycol) network. <i>Journal of Membrane Science</i> , 2013, 444, 96-100.	4.1	21
24	Poly(amidoamine) dendrimer/poly(vinyl alcohol) hybrid membranes for CO ₂ capture. <i>Journal of Membrane Science</i> , 2012, 423-424, 107-112.	4.1	59
25	Structural analysis of poly(amidoamine) dendrimer immobilized in crosslinked poly(ethylene glycol). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1156-1164.	2.4	9
26	Facile fabrication of a novel high performance CO ₂ separation membrane: Immobilization of poly(amidoamine) dendrimers in poly(ethylene glycol) networks. <i>Journal of Membrane Science</i> , 2008, 322, 277-280.	4.1	65