# Ikuo Taniguchi

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | A bacterium that degrades and assimilates poly(ethylene terephthalate). Science, 2016, 351, 1196-1199. | 6.0 | 1,773 |
| 2 | Biodegradation of PET: Current Status and Application Aspects. ACS Catalysis, 2019, 9, 4089-4105. | 5.5 | 349 |
| 3 | Biodegradation of waste <scp>PET</scp>. EMBO Reports, 2019, 20, e49365. | 2.0 | 66 |
| 4 | Facile fabrication of a novel high performance CO2 separation membrane: Immobilization of poly(amidoamine) dendrimers in poly(ethylene glycol) networks. Journal of Membrane Science, 2008, 322, 277-280. | 4.1 | 65 |
| 5 | Poly(amidoamine) dendrimer/poly(vinyl alcohol) hybrid membranes for CO2 capture. Journal of Membrane Science, 2012, 423-424, 107-112. | 4.1 | 59 |
| 6 | Response to Comment on â€œA bacterium that degrades and assimilates poly(ethylene terephthalate)â€. Science, 2016, 353, 759-759. | 6.0 | 48 |
| 7 | Ideonella sakaiensis, PETase, and MHETase: From identification of microbial PET degradation to enzyme characterization. Methods in Enzymology, 2021, 648, 187-205. | 0.4 | 44 |
| 8 | A compatible crosslinker for enhancement of CO2 capture of poly(amidoamine) dendrimer-containing polymeric membranes. Journal of Membrane Science, 2015, 475, 175-183. | 4.1 | 35 |
| 9 | Effect of the phase-separated structure on CO2 separation performance of the poly(amidoamine) dendrimer immobilized in a poly(ethylene glycol) network. Journal of Materials Chemistry A, 2013, 1, 14514. | 5.2 | 24 |
| 10 | A CO2-selective molecular gate of poly(amidoamine) dendrimer immobilized in a poly(ethylene glycol) network. Journal of Membrane Science, 2013, 444, 96-100. | 4.1 | 21 |
| 11 | Effect of amine structure on CO<sub>2</sub> capture by polymeric membranes. Science and Technology of Advanced Materials, 2017, 18, 950-958. | 2.8 | 21 |
| 12 | Assembly of Defect-Free Microgel Nanomembranes for CO<sub>2</sub> Separation. ACS Applied Materials & Interfaces, 2021, 13, 30030-30038. | 4.0 | 18 |
| 13 | Low-Temperature Processable Block Copolymers That Preserve the Function of Blended Proteins. Biomacromolecules, 2016, 17, 2466-2471. | 2.6 | 13 |
| 14 | Piperazine-immobilized polymeric membranes for CO2 capture: mechanism of preferential CO2 permeation. Polymer Journal, 2021, 53, 129-136. | 1.3 | 13 |
| 15 | A strategy to enhance CO2 permeability of well-defined hyper-branched polymers with dense polyoxyethylene comb graft. Journal of Membrane Science, 2017, 535, 239-247. | 4.1 | 12 |
| 16 | Preparation of well-defined hyper-branched polymers and the CO2 separation performance. Journal of Membrane Science, 2016, 502, 124-132. | 4.1 | 10 |
| 17 | Low Energy CO2 Capture by Electrodialysis. Energy Procedia, 2017, 114, 1615-1620. | 1.8 | 10 |
| 18 | Fine-tuning of the surface porosity of micropatterned polyethersulfone membranes prepared by phase separation micromolding. Polymer Journal, 2020, 52, 397-403. | 1.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Structural analysis of poly(amidoamine) dendrimer immobilized in crosslinked poly(ethylene glycol). Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1156-1164. | 2.4 | 9 |
| 20 | An Alternative Carbon Dioxide Capture by Electrochemical Method. Chemistry Letters, 2014, 43, 1601-1603. | 0.7 | 6 |
| 21 | CO<sub>2</sub> capture by polymeric membranes composed of hyper-branched polymers with dense poly(oxyethylene) comb and poly(amidoamine). Open Physics, 2017, 15, 662-670. | 0.8 | 5 |
| 22 | Effect of Alkali Treatment on the Mechanical Properties of Anion-Exchange Membranes with a Poly(vinyl Chloride) Backing and Binder. Membranes, 2020, 10, 344. | 1.4 | 5 |
| 23 | Computational approach for investigating the mechanism of carbon dioxide interaction by 2-(2-aminoethylamino)ethanol: A significant role of water molecule. Chemical Physics Letters, 2021, 783, 139070. | 1.2 | 4 |
| 24 | CO2 Capture, Transportation, and Storage Technology. , 2016, , 343-358. | | 3 |
| 25 | Glycine amino acid transformation under impacts by small solar system bodies, simulated via high-pressure torsion method. Scientific Reports, 2022, 12, 5677. | 1.6 | 3 |
| 26 | Preferential CO2 Separation over H2 with Poly(amidoamine) Dendrimer-Containing Polymeric Membrane. Materials Research Society Symposia Proceedings, 2014, 1660, 1. | 0.1 | 0 |