

1. Refreed Journal Articles

1. W. Puthai, M. Kanezashi, H. Nagasawa, K. Wakamura, H. Ohnishi, T. Tsuru, Effect of firing temperature on the water permeability of $\text{SiO}_2\text{-ZrO}_2$ membranes for nanofiltration, *Journal of Membrane Science* **497** (2016) 348-356. [doi:10.1016/j.memsci.2015.09.040](https://doi.org/10.1016/j.memsci.2015.09.040)
2. H. Nagasawa, N. Matsuda, M. Kanezashi, T. Yoshioka, T. Tsuru, Pervaporation and vapor permeation characteristics of BTESE-derived organosilica membranes and their long-term stability in a high-water-content IPA/water mixture, *Journal of Membrane Science* **498** (2016) 336-344. [doi:10.1016/j.memsci.2015.10.002](https://doi.org/10.1016/j.memsci.2015.10.002)
3. M. Kanezashi, T. Matsutani, T. Wakihara, H. Tawarayama, H. Nagasawa, T. Yoshioka, T. Okubo, T. Tsuru, Tailoring the subnano silica structure via fluorine doping for development of highly permeable CO_2 separation membranes, *ChemNanoMat* **2** (2016) 264-267. [DOI:10.1002/cnma.201600045](https://doi.org/10.1002/cnma.201600045)
4. M. Kanezashi, S. Miyauchi, S. Hayakawa, H. Nagasawa, T. Yoshioka, T. Tsuru, $\text{C}_3\text{H}_6/\text{C}_3\text{H}_8$ permeation properties of metal doped organosilica membranes with controlled network size and adsorption property, *Journal of the Japan Petroleum Institute* **59** (2016) 140-148.
5. X. Yu, L. Meng, T. Niimi, H. Nagasawa, M. Kanezashi, T. Yoshioka, T. Tsuru, Network engineering of a BTESE membrane for improved gas performance via a novel pH-swing method, *Journal of Membrane Science* **511** (2016) 219-227. [doi:10.1016/j.memsci.2016.03.060](https://doi.org/10.1016/j.memsci.2016.03.060)
6. G. Gong, H. Nagasawa, M. Kanezashi, T. Tsuru, Tailoring the separation behavior of polymer-supported organosilica layered-hybrid membrane via facile post-treatment using HCl and NH_3 vapors, *ACS Applied Materials & Interfaces* **8** (2016) 11060-11069. [DOI:10.1021/acsami.6b01986](https://doi.org/10.1021/acsami.6b01986)
7. W. Puthai, M. Kanezashi, H. Nagasawa, T. Tsuru, Nanofiltration performance of $\text{SiO}_2\text{-ZrO}_2$ membranes in aqueous solutions at high temperatures, *Separation and Purification Technology* **168** (2016) 238-247. [doi:10.1016/j.seppur.2016.05.028](https://doi.org/10.1016/j.seppur.2016.05.028)
8. H. Nagasawa, M. Kanezashi, T. Yoshioka, T. Tsuru, Plasma-enhanced chemical vapor deposition of amorphous carbon molecular sieve membranes for gas separation, *RSC Advances* **6** (2016) 59045-59049. [DOI:10.1039/C6RA0381G](https://doi.org/10.1039/C6RA0381G)
9. R. Abejón, A. Abejón, A. Garea, T. Tsuru, A. Irabien, M.P. Belleville, J. Sanchez-Marcano, In Silico Evaluation of Ultrafiltration and Nanofiltration Membrane Cascades for Continuous Fractionation of Protein Hydrolysate from Tuna Processing Byproduct, *Industrial & Engineering Chemistry research*, *in press*, [DOI:10.1021/acs.iecr.6b01495](https://doi.org/10.1021/acs.iecr.6b01495)
10. Xu, Rong; Lin, Peng; Zhang, Qi; Zhong, Jing; Tsuru, Toshinori, Development of ethylene-bridged organosilica membranes for desalination applications, *Industrial & Engineering Chemistry Research* **55** (2016) 2183-2190. [DOI:10.1021/acs.iecr.5b04439](https://doi.org/10.1021/acs.iecr.5b04439)
11. Lie Meng, Toshinori Tsuru, Hydrogen Production from Energy Carriers by Silica-Based Catalytic Membrane Reactors, *Catalysis Today*, **268** (2016) 3-11. [doi:10.1016/j.cattod.2015.11.006](https://doi.org/10.1016/j.cattod.2015.11.006)

2. Books, Chapters

1. X. Ren, M. Kanezashi, T. Tsuru, "Chapter 7: Hybrid organosilica membranes for CO_2 separation under wet conditions," *Carbon Dioxide Capture: Processes, Technology and Environmental Implications*, Nova Science Publishers, Inc. (2016)

3. Review Articles

1. 金指正言, Normalized Knudsen-based Permeance (NKP) 法によるアモルファスシリカ膜の細孔径評価, 膜 (*MEMBRANE*), **41** (2016) 36-43.
2. 金指正言, 無機分離膜開発の研究動向, 化学工学, **80** (2016) 307.
3. 金指正言, 都留稔了, 硫酸分解のための膜分離プロセスの開発, 膜 (*MEMBRANE*), **41** (2016) 102-107.

4. Invited, keynote lecture

1. T. Tsuru, Nanopermporometry (NPP) and Normalized Knudsen-based permeance (NKP) for pore-size evaluation of nano/subnano-porous membranes, International Zeolite Membrane Meeting (IZMM), August 20-23, 2016, Dalian, China (Plenary)
 2. L. Meng, X. Yu, M. Kanezashi, and T. Tsuru, Enhanced SO₃ Decomposition in A Highly Stable Catalytic Membrane Reactor for Iodine–Sulfur Thermochemical Cycle, The 10th Conference of ASEANIAN Membrane Society (AMS10), 2015.7.28, Nara, Japan (Keynote,)
 3. T. Tsuru, ICIM-14 (International Conference on Inorganic Membranes), Robust reverse osmosis and nanofiltration membranes for expanding applications, 2016.07. (Keynote)
 4. 都留稔了, 金指正言, 硫酸分解のための膜分離プロセスの開発, 日本膜学会年会, 2016.5.11
 5. 都留稔了, 多孔性膜の細孔径制御と各種分離プロセスへの応用, 先進センターシンポジウム, 2016 年 5 月 7 日
 6. 都留稔了, 分離工学そして膜分離のすすめ:セラミック分離膜を中心として, 第63回中国四国産学連携化学フォーラム, 2016 年 4 月 8 日
 7. T. Tsuru, Nano/subnano-porous membranes for expanding applications: design and evaluation of porous structures, International Symposium -Recent developments of micro-porous membranes--, SCEJ 81st Annual Meeting, 2016.3.15 (Requested)
 8. 都留稔了, 長澤寛規, プラズマ CVD 法を用いた多孔質分離膜の研究開発の現状と今後の展望, 日本学術振興会第 153 委員会, 2016Feb9
5. Others
1. 都留 稔了, 持続可能社会の具現化のための分離工学, 膜工学のすすめ, 高分子, 素描(巻頭言), 65 (2016) 162
 2. 都留 稔了, 膜分離と分析技術, 膜, 巷頭言, 41(2016)