

Sho Kataoka

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,397
citations

257357

24
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197736

49
g-index

62
all docs

62
docs citations

62
times ranked

3516
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Design and assessment of an energy self-supply process producing tetraethyl orthosilicate using rice husk. <i>Bioresource Technology</i> , 2022, 344, 126188. | 4.8 | 4 |
| 2 | Design and Evaluation of Two-Stage Membrane-Separation Processes for Propylene-Propane Mixtures. <i>Membranes</i> , 2022, 12, 163. | 1.4 | 5 |
| 3 | Enhanced Solubility of Zirconium Oxo Clusters from Diacetoxyzirconium(IV) Oxide Aqueous Solution as Inorganic Extreme-Ultraviolet Photoresists. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, . | 1.0 | 10 |
| 4 | Impact of process configuration on energy consumption and membrane area in hybrid separation process using olefin-selective zeolite membrane. <i>Separation and Purification Technology</i> , 2022, 294, 121208. | 3.9 | 3 |
| 5 | Scenario assessment for producing methanol through carbon capture and utilization technologies considering regional characteristics. <i>Journal of CO2 Utilization</i> , 2021, 45, 101452. | 3.3 | 7 |
| 6 | Integrating life cycle assessment for design and optimization of methanol production from combining methane dry reforming and partial oxidation. <i>Journal of Cleaner Production</i> , 2021, 292, 125970. | 4.6 | 14 |
| 7 | Fluoride Ion-Initiated Decarboxylation of Silyl Alkynoates to Alkynylsilanes. <i>ACS Omega</i> , 2021, 6, 12853-12857. | 1.6 | 6 |
| 8 | Microreactor Coated with Mesoporous Organosilica Thin Film as a Support for Metal Complex Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4083-4087. | 1.0 | 3 |
| 9 | Time evolution of the framework structure of SBA-15 during the aging process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123807. | 2.3 | 4 |
| 10 | Water Filling and Emptying Kinetics in Two-Dimensional Hexagonal Mesoporous Silica of the Same Pore Diameter but Different Pore Lengths. <i>Langmuir</i> , 2019, 35, 10762-10771. | 1.6 | 2 |
| 11 | Impact of the Water Removal Method on Tetraethyl Orthosilicate Direct Synthesis: Experiment and Process Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19997-20002. | 1.8 | 7 |
| 12 | Technoeconomic and Environmental Assessment for Design and Optimization of Tetraethyl Orthosilicate Synthesis Process. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2192-2199. | 1.8 | 10 |
| 13 | Toward Increasing Micropore Volume between Hybrid Layered Perovskites with Silsesquioxane Interlayers. <i>Langmuir</i> , 2018, 34, 4166-4172. | 1.6 | 3 |
| 14 | Hybrid Lead Halide Layered Perovskites with Silsesquioxane Interlayers. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 95-99. | 0.9 | 1 |
| 15 | High-value materials from incineration residues of burnable garbage. <i>Synthesiology</i> , 2018, 11, 128-136. | 0.2 | 0 |
| 16 | Direct synthesis of tetraalkoxysilanes from silica and alcohols. <i>New Journal of Chemistry</i> , 2017, 41, 2224-2226. | 1.4 | 28 |
| 17 | Thermal dependence of nanofluidic energy conversion by reverse electrodialysis. <i>Nanoscale</i> , 2017, 9, 12068-12076. | 2.8 | 84 |
| 18 | Feasibility Study of New Synthesis Route of Tetraethoxysilane from Rice Hull Ash. <i>Computer Aided Chemical Engineering</i> , 2017, , 703-708. | 0.3 | 3 |

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|----|--|-----|-----------|
| 19 | Enhanced energy harvesting by concentration gradient-driven ion transport in SBA-15 mesoporous silica thin films. <i>Lab on A Chip</i> , 2016, 16, 3824-3832. | 3.1 | 67 |
| 20 | Controlled formation of ordered coordination polymeric networks using silsesquioxane building blocks. <i>Dalton Transactions</i> , 2016, 45, 17082-17086. | 1.6 | 21 |
| 21 | Layered Hybrid Perovskites with Micropores Created by Alkylammonium Functional Silsesquioxane Interlayers. <i>Journal of the American Chemical Society</i> , 2015, 137, 4158-4163. | 6.6 | 44 |
| 22 | Adsorption and Desorption of Water in Two-Dimensional Hexagonal Mesoporous Silica with Different Pore Dimensions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26171-26182. | 1.5 | 16 |
| 23 | Patterned silica films using microphase separation of a block copolymer. <i>APL Materials</i> , 2014, 2, 113311. | 2.2 | 0 |
| 24 | Controlled Formation of Silica Structures Using Siloxane/Block Copolymer Complexes Prepared in Various Solvent Mixtures. <i>Langmuir</i> , 2013, 29, 13562-13567. | 1.6 | 8 |
| 25 | Development of Simulator for Bio-Propylene Synthesis Process. <i>Kagaku Kogaku Ronbunshu</i> , 2013, 39, 126-131. | 0.1 | 1 |
| 26 | Ion Transport in Mesoporous Silica SBA-16 Thin Films with 3D Cubic Structures. <i>Langmuir</i> , 2012, 28, 3671-3677. | 1.6 | 23 |
| 27 | Microreactor containing platinum nanoparticles for nitrobenzene hydrogenation. <i>Applied Catalysis A: General</i> , 2012, 427-428, 119-124. | 2.2 | 54 |
| 28 | Boron adsorption mechanism on polyvinyl alcohol. <i>Adsorption</i> , 2011, 17, 171-178. | 1.4 | 37 |
| 29 | Ion Transport in Mesoporous Silica Thin Films. , 2011, , . | | 1 |
| 30 | Global Reaction Enhancement by Periodic Operation. <i>Kagaku Kogaku Ronbunshu</i> , 2011, 37, 125-127. | 0.1 | 1 |
| 31 | Diffusion in Flow and Porous Catalyst Part inside Microreactors for Heterogeneous Catalytic Reactions. <i>Kagaku Kogaku Ronbunshu</i> , 2011, 37, 420-425. | 0.1 | 0 |
| 32 | Characterization of carbon cryogel microspheres as adsorbents for VOC. <i>Journal of Hazardous Materials</i> , 2010, 177, 331-335. | 6.5 | 36 |
| 33 | Direct observation of surface structure of mesoporous silica with low acceleration voltage FE-SEM. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 357, 11-16. | 2.3 | 31 |
| 34 | Nanometer-Sized Domains in Langmuir-Blodgett Films for Patterning SiO ₂ . <i>Langmuir</i> , 2010, 26, 6161-6163. | 1.6 | 11 |
| 35 | Microreactor with mesoporous silica support layer for lipase catalyzed enantioselective transesterification. <i>Green Chemistry</i> , 2010, 12, 331. | 4.6 | 38 |
| 36 | Synthesis and characterization of mesoporous carbon thin films from phloroglucinol/surfactant self-assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 142-145. | 2.3 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Enzymatic reactions inside a microreactor with a mesoporous silica catalyst support layer. <i>Applied Catalysis A: General</i> , 2009, 359, 108-112. | 2.2 | 36 |
| 38 | Synthesis of monodisperse carbonaceous beads with ordered mesoporous structure. <i>Carbon</i> , 2009, 47, 929-932. | 5.4 | 4 |
| 39 | One-Dimensional Alignment of SBA-15 Films in Microtrenches. <i>Langmuir</i> , 2009, 25, 11221-11224. | 1.6 | 16 |
| 40 | Synthesis of ordered mesoporous carbon thin films at various temperatures in vapor infiltration method. <i>Carbon</i> , 2008, 46, 1358-1360. | 5.4 | 15 |
| 41 | Characterization of mesoporous catalyst supports on microreactor walls. <i>Applied Catalysis A: General</i> , 2008, 342, 107-112. | 2.2 | 38 |
| 42 | Fabrication of mesoporous silica thin films inside microreactors. <i>Materials Letters</i> , 2008, 62, 723-726. | 1.3 | 28 |
| 43 | On Process Intensification of Membrane Reactor. <i>Kagaku Kogaku Ronbunshu</i> , 2008, 34, 144-147. | 0.1 | 0 |
| 44 | Simulation of Multicomponent Separation in Internally Heat Integrated Distillation Column using the Compact Heat Exchanger System. <i>Kagaku Kogaku Ronbunshu</i> , 2008, 34, 64-69. | 0.1 | 3 |
| 45 | Specific Ion Effects on Interfacial Water Structure near Macromolecules. <i>Journal of the American Chemical Society</i> , 2007, 129, 12272-12279. | 6.6 | 294 |
| 46 | GM1Clustering Inhibits Cholera Toxin Binding in Supported Phospholipid Membranes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5954-5961. | 6.6 | 175 |
| 47 | Rate-based Modeling for Internally Heat-integrated Distillation Column (HIDiC) in Binary System. <i>Journal of the Japan Petroleum Institute</i> , 2007, 50, 162-168. | 0.4 | 4 |
| 48 | Effect of Average Phospholipid Curvature on Supported Bilayer Formation on Glass by Vesicle Fusion. <i>Biophysical Journal</i> , 2006, 90, 1241-1248. | 0.2 | 133 |
| 49 | Probing Molecular Structure at Interfaces for Comparison with Bulk Solution Behavior: $\text{H}_2\text{O}/2\text{-Propanol}$ Mixtures Monitored by Vibrational Sum Frequency Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 5516-5522. | 6.6 | 72 |
| 50 | Direct Writing of Metal Nanoparticle Films Inside Sealed Microfluidic Channels. <i>Analytical Chemistry</i> , 2006, 78, 107-112. | 3.2 | 30 |
| 51 | A Rapid Prototyping Approach to Ag Nanoparticle Fabrication in the 10–100 nm Range. <i>Advanced Materials</i> , 2006, 18, 2240-2243. | 11.1 | 19 |
| 52 | Photocatalytic degradation of hydrogen sulfide and in situ FT-IR analysis of reaction products on surface of TiO_2 . <i>Applied Catalysis B: Environmental</i> , 2005, 61, 159-163. | 10.8 | 79 |
| 53 | Fluid and Air-Stable Lipopolymer Membranes for Biosensor Applications. <i>Langmuir</i> , 2005, 21, 7476-7482. | 1.6 | 132 |
| 54 | On the Mechanism of the Hofmeister Effect. <i>Journal of the American Chemical Society</i> , 2004, 126, 10522-10523. | 6.6 | 290 |

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|----|---|-----|-----------|
| 55 | Capillary rise between two TiO ₂ thin-films: evaluating photo-activated wetting. <i>Thin Solid Films</i> , 2004, 446, 232-237. | 0.8 | 4 |
| 56 | Thin-film transmission IR spectroscopy as an in situ probe of the gas/solid interface in photocatalytic processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 323-329. | 2.0 | 23 |
| 57 | Investigation of Water Structure at the TiO ₂ /Aqueous Interface. <i>Langmuir</i> , 2004, 20, 1662-1666. | 1.6 | 89 |
| 58 | Dynamic phenomena during the photocatalytic oxidation of ethanol and acetone over nanocrystalline TiO ₂ : simultaneous FTIR analysis of gas and surface species. <i>Journal of Catalysis</i> , 2003, 219, 219-230. | 3.1 | 208 |
| 59 | Thermodynamics of Phase Transitions in Langmuir Monolayers Observed by Vibrational Sum Frequency Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 11166-11167. | 6.6 | 41 |
| 60 | Photocatalytic oxidation in the presence of microwave irradiation: observations with ethylene and water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 323-330. | 2.0 | 72 |
| 61 | Low voltage, high resolution SEM imaging for mesoporous materials. , 0, , 631-632. | | 0 |