

# Sho Kataoka

## List of Publications by Year in descending order

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61  
papers

2,397  
citations

257357

24  
h-index

197736

49  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Ion Effects on Interfacial Water Structure near Macromolecules. Journal of the American Chemical Society, 2007, 129, 12272-12279.	6.6	294
2	On the Mechanism of the Hofmeister Effect. Journal of the American Chemical Society, 2004, 126, 10522-10523.	6.6	290
3	Dynamic phenomena during the photocatalytic oxidation of ethanol and acetone over nanocrystalline TiO <sub>2</sub> : simultaneous FTIR analysis of gas and surface species. Journal of Catalysis, 2003, 219, 219-230.	3.1	208
4	GM1Clustering Inhibits Cholera Toxin Binding in Supported Phospholipid Membranes. Journal of the American Chemical Society, 2007, 129, 5954-5961.	6.6	175
5	Effect of Average Phospholipid Curvature on Supported Bilayer Formation on Glass by Vesicle Fusion. Biophysical Journal, 2006, 90, 1241-1248.	0.2	133
6	Fluid and Air-Stable Lipopolymer Membranes for Biosensor Applications. Langmuir, 2005, 21, 7476-7482.	1.6	132
7	Investigation of Water Structure at the TiO <sub>2</sub> /Aqueous Interface. Langmuir, 2004, 20, 1662-1666.	1.6	89
8	Thermal dependence of nanofluidic energy conversion by reverse electrodialysis. Nanoscale, 2017, 9, 12068-12076.	2.8	84
9	Photocatalytic degradation of hydrogen sulfide and in situ FT-IR analysis of reaction products on surface of TiO <sub>2</sub> . Applied Catalysis B: Environmental, 2005, 61, 159-163.	10.8	79
10	Photocatalytic oxidation in the presence of microwave irradiation: observations with ethylene and water. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 323-330.	2.0	72
11	Probing Molecular Structure at Interfaces for Comparison with Bulk Solution Behavior: $\hat{A}$ Water/2-Propanol Mixtures Monitored by Vibrational Sum Frequency Spectroscopy. Journal of the American Chemical Society, 2006, 128, 5516-5522.	6.6	72
12	Enhanced energy harvesting by concentration gradient-driven ion transport in SBA-15 mesoporous silica thin films. Lab on A Chip, 2016, 16, 3824-3832.	3.1	67
13	Microreactor containing platinum nanoparticles for nitrobenzene hydrogenation. Applied Catalysis A: General, 2012, 427-428, 119-124.	2.2	54
14	Layered Hybrid Perovskites with Micropores Created by Alkylammonium Functional Silsesquioxane Interlayers. Journal of the American Chemical Society, 2015, 137, 4158-4163.	6.6	44
15	Thermodynamics of Phase Transitions in Langmuir Monolayers Observed by Vibrational Sum Frequency Spectroscopy. Journal of the American Chemical Society, 2003, 125, 11166-11167.	6.6	41
16	Characterization of mesoporous catalyst supports on microreactor walls. Applied Catalysis A: General, 2008, 342, 107-112.	2.2	38
17	Microreactor with mesoporous silica support layer for lipase catalyzed enantioselective transesterification. Green Chemistry, 2010, 12, 331.	4.6	38
18	Boron adsorption mechanism on polyvinyl alcohol. Adsorption, 2011, 17, 171-178.	1.4	37

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19	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
20	Characterization of carbon cryogel microspheres as adsorbents for VOC. <i>Journal of Hazardous Materials</i> , 2010, 177, 331-335.	6.5	36
21	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
22	Direct Writing of Metal Nanoparticle Films Inside Sealed Microfluidic Channels. <i>Analytical Chemistry</i> , 2006, 78, 107-112.	3.2	30
23	Fabrication of mesoporous silica thin films inside microreactors. <i>Materials Letters</i> , 2008, 62, 723-726.	1.3	28
24	Direct synthesis of tetraalkoxysilanes from silica and alcohols. <i>New Journal of Chemistry</i> , 2017, 41, 2224-2226.	1.4	28
25	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
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	Controlled formation of ordered coordination polymeric networks using silsesquioxane building blocks. <i>Dalton Transactions</i> , 2016, 45, 17082-17086.	1.6	21
28	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
29	One-Dimensional Alignment of SBA-15 Films in Microtrenches. <i>Langmuir</i> , 2009, 25, 11221-11224.	1.6	16
30	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
31	Synthesis of ordered mesoporous carbon thin films at various temperatures in vapor infiltration method. <i>Carbon</i> , 2008, 46, 1358-1360.	5.4	15
32	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
33	Nanometer-Sized Domains in Langmuir-Blodgett Films for Patterning SiO <sub>2</sub> . <i>Langmuir</i> , 2010, 26, 6161-6163.	1.6	11
34	Technoeconomic and Environmental Assessment for Design and Optimization of Tetraethyl Orthosilicate Synthesis Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2192-2199.	1.8	10
35	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
36	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

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37	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
38	Impact of the Water Removal Method on Tetraethyl Orthosilicate Direct Synthesis: Experiment and Process Assessment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 19997-20002.	1.8	7
39	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
40	Fluoride Ion-Initiated Decarboxylation of Silyl Alkynoates to Alkynylsilanes. <i>ACS Omega</i> , 2021, 6, 12853-12857.	1.6	6
41	Design and Evaluation of Two-Stage Membrane-Separation Processes for Propylene-Propane Mixtures. <i>Membranes</i> , 2022, 12, 163.	1.4	5
42	Capillary rise between two TiO2 thin-films: evaluating photo-activated wetting. <i>Thin Solid Films</i> , 2004, 446, 232-237.	0.8	4
43	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
44	Synthesis of monodisperse carbonaceous beads with ordered mesoporous structure. <i>Carbon</i> , 2009, 47, 929-932.	5.4	4
45	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
46	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
47	Feasibility Study of New Synthesis Route of Tetraethoxysilane from Rice Hull Ash. <i>Computer Aided Chemical Engineering</i> , 2017, , 703-708.	0.3	3
48	Toward Increasing Micropore Volume between Hybrid Layered Perovskites with Silsesquioxane Interlayers. <i>Langmuir</i> , 2018, 34, 4166-4172.	1.6	3
49	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
50	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
51	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
52	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
53	Ion Transport in Mesoporous Silica Thin Films. , 2011, , .		1
54	Hybrid Lead Halide Layered Perovskites with Silsesquioxane Interlayers. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 95-99.	0.9	1

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55	Global Reaction Enhancement by Periodic Operation. Kagaku Kogaku Ronbunshu, 2011, 37, 125-127.	0.1	1
56	Development of Simulator for Bio-Propylene Synthesis Process. Kagaku Kogaku Ronbunshu, 2013, 39, 126-131.	0.1	1
57	Patterned silica films using microphase separation of a block copolymer. APL Materials, 2014, 2, 113311.	2.2	0
58	On Process Intensification of Membrane Reactor. Kagaku Kogaku Ronbunshu, 2008, 34, 144-147.	0.1	0
59	Diffusion in Flow and Porous Catalyst Part inside Microreactors for Heterogeneous Catalytic Reactions. Kagaku Kogaku Ronbunshu, 2011, 37, 420-425.	0.1	0
60	High-value materials from incineration residues of burnable garbage. Synthesiology, 2018, 11, 128-136.	0.2	0
61	Low voltage, high resolution SEM imaging for mesoporous materials. , 0, , 631-632.		0