

# Sheng-Li Chen

## List of Publications by Year in descending order

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53  
papers

1,093  
citations

430874

18  
h-index

434195

31  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of pore diffusion factor of porous solid materials. <i>Petroleum Science</i> , 2022, 19, 1897-1904.	4.9	1
2	A Green and Cost-Effective Synthesis of Hierarchical SAPO-34 through Dry Gel Conversion and Its Performance in a Methanol-to-Olefin Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15380-15390.	3.7	10
3	Insight into the Coke Precursor in the Process of the Methanol-to-Olefins Reaction. <i>Energy &amp; Fuels</i> , 2020, 34, 742-748.	5.1	10
4	Homogenous hydrolysis of cellulose to glucose in an inorganic ionic liquid catalyzed by zeolites. <i>Cellulose</i> , 2020, 27, 9201-9215.	4.9	18
5	High Metal-Acid Balance and Selective Hydrogenation Activity Catalysts for Hydrocracking of 1-Methylnaphthalene to Benzene, Toluene, and Xylene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5546-5556.	3.7	20
6	A model for transient diffusion in bidisperse pore structures. <i>Petroleum Science</i> , 2019, 16, 1455-1470.	4.9	4
7	A Novel Method for Rapid Fabrication of Colloidal Clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4237-4243.	0.9	0
8	The diffusion of molecules inside porous materials with bidisperse pore structures. <i>Chemical Engineering Journal</i> , 2019, 365, 201-219.	12.7	8
9	The measurements of the intrinsic diffusivity in pores and surface diffusivity inside the porous materials in liquid phase. <i>Chemical Engineering Science</i> , 2019, 196, 176-187.	3.8	5
10	Dual-Bandgap Effect of Photonic Crystals on TiO <sub>2</sub> Photocatalytic Activity in Ultraviolet and Visible Light Regions. <i>Catalysis Surveys From Asia</i> , 2019, 23, 23-32.	2.6	7
11	Enhanced Visible-Light Photocatalytic Activity of a TiO <sub>2</sub> Membrane-Assisted with N-Doped Carbon Quantum Dots and SiO <sub>2</sub> Opal Photonic Crystal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 120-127.	3.7	19
12	High-selective-hydrogenation activity of W/Beta catalyst in hydrocracking of 1-methylnaphthalene to benzene, toluene and xylene. <i>Fuel</i> , 2018, 234, 1015-1025.	6.4	29
13	The structure evolution of colloidal aggregates composed of monodisperse silica nanospheres. <i>Journal of Colloid and Interface Science</i> , 2017, 502, 219-226.	9.4	6
14	TiO <sub>2</sub> activity enhancement through synergistic effect of photons localization of photonic crystals and the sensitization of CdS quantum dots. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 23, 12-20.	2.0	18
15	Kinetics of coke formation in the dimethyl ether-to-olefins process over SAPO-34 catalyst. <i>Chemical Engineering Journal</i> , 2017, 326, 528-539.	12.7	22
16	Differences in Product Distribution Measured with Flame Ionization Detector Gas Chromatography and Thermal Conductivity Detector Gas Chromatography during the Dimethyl Ether-to-Olefins and Methanol-to-Olefins Processes. <i>Energy &amp; Fuels</i> , 2017, 31, 13266-13272.	5.1	6
17	Enhanced Methanol to Olefin Catalysis by Physical Mixtures of SAPO-34 Molecular Sieve and MgO. <i>ACS Catalysis</i> , 2017, 7, 5572-5584.	11.2	39
18	The surface properties of aluminated meso-macroporous silica and its catalytic performance as hydrodesulfurization catalyst support. <i>Petroleum Science</i> , 2017, 14, 424-433.	4.9	6

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19	Influence of template content on selective synthesis of SAPO-18, SAPO-18/34 intergrowth and SAPO-34 molecular sieves used for methanol-to-olefins process. <i>RSC Advances</i> , 2016, 6, 104985-104994.	3.6	28
20	Fabrication and characterization of novel composite membranes composed of photonic crystals and TiO <sub>2</sub> nanotube array films. <i>Optical Materials</i> , 2016, 55, 130-135.	3.6	1
21	Enhancement of gas-liquid photocatalytic activity of nanocrystalline TiO <sub>2</sub> by SiO <sub>2</sub> opal photonic crystal. <i>Journal of Materials Science</i> , 2016, 51, 2079-2089.	3.7	15
22	Probing photon localization effect between titania and photonic crystals on enhanced photocatalytic activity of titania film. <i>Chemical Engineering Journal</i> , 2016, 284, 305-314.	12.7	33
23	Preparation and photocatalytic activity of hierarchically 3D ordered macro/mesoporous titania inverse opal films. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 143-148.	4.4	19
24	Photonic bandgap extension of surface-disordered 3D photonic crystals based on the TiO <sub>2</sub> inverse opal architecture. <i>Optics Letters</i> , 2014, 39, 2386.	3.3	0
25	Insight into the intraparticle diffusion of residue oil components in catalysts during hydrodesulfurization reaction. <i>AIChE Journal</i> , 2014, 60, 3267-3275.	3.6	13
26	The effect of photonic band gap on the photo-catalytic activity of nc-TiO <sub>2</sub> /SnO <sub>2</sub> photonic crystal composite membranes. <i>Chemical Engineering Journal</i> , 2014, 249, 48-53.	12.7	43
27	Influence of catalyst support structure on ethene/decene metathesis and coke formation over WO <sub>3</sub> /SiO <sub>2</sub> catalyst. <i>Petroleum Science</i> , 2013, 10, 112-119.	4.9	4
28	Diffusion of heavy oil in well-defined and uniform pore-structure catalyst under hydrodemetallization reaction conditions. <i>Chemical Engineering Journal</i> , 2013, 231, 420-426.	12.7	23
29	Tailored ordered porous alumina with well-defined and uniform pore-structure. <i>Chemical Engineering Journal</i> , 2013, 223, 670-677.	12.7	12
30	Modification and Photocatalytic Activity of TiO <sub>2</sub> /SnO <sub>2</sub> Inverse Opal Membranes. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2013, 28, 283-286.	1.3	0
31	Structure and activity of NiMo/alumina hydrodesulfurization model catalyst with ordered opal-like pores. <i>Catalysis Communications</i> , 2012, 19, 5-9.	3.3	11
32	Metathesis of 1-butene and 2-butene to propene over Re <sub>2</sub> O <sub>7</sub> supported on macro-mesoporous $\gamma$ -alumina prepared via a dual template method. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 105-108.	1.8	13
33	Enhanced photocatalytic performance of nanocrystalline TiO <sub>2</sub> membrane by both slow photons and stop-band reflection of photonic crystals. <i>AIChE Journal</i> , 2012, 58, 568-572.	3.6	42
34	Preparation and evaluation of a well-ordered mesoporous nickel-molybdenum/silica opal hydrodesulfurization model catalyst. <i>Transition Metal Chemistry</i> , 2012, 37, 25-30.	1.4	4
35	Preparation of photonic crystal heterostructures composed of two TiO <sub>2</sub> inverse opal films with different filling factors. <i>Synthetic Metals</i> , 2011, 161, 504-507.	3.9	15
36	Fabrication of colloidal crystal heterostructures by a room temperature floating self-assembly method. <i>Materials Chemistry and Physics</i> , 2011, 128, 6-9.	4.0	9

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37	Metathesis of butene to propene on WO <sub>3</sub> supported on MTS-9 titanium-silica: effect of loading on selectivity of product and yield of propene. <i>Transition Metal Chemistry</i> , 2011, 36, 245-248.	1.4	16
38	Investigation of macro-/mesoporous Re <sub>2</sub> O <sub>7</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts prepared by a particle-template method for butylene metathesis. <i>Transition Metal Chemistry</i> , 2011, 36, 441-445.	1.4	1
39	Metathesis of butene to propene and pentene over WO <sub>3</sub> /MTS-9. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 320-325.	4.4	44
40	Preparation and size determination of monodisperse silica microspheres for particle size certified reference materials. <i>Powder Technology</i> , 2011, 207, 232-237.	4.2	24
41	Fabrication of large-area and high-quality colloidal crystal films on nanocrystalline porous substrates by a room temperature floating self-assembly method. <i>Thin Solid Films</i> , 2011, 519, 1798-1802.	1.8	8
42	Synthesis, Characterization and Hydroisomerization Performance of SAPO-11 Molecular Sieves with Caverns by Polymer Spheres. <i>Catalysis Letters</i> , 2010, 136, 126-133.	2.6	16
43	Measurement of Diffusion Coefficient of Heavy Oil in Fluidized Catalytic Cracking (FCC) Catalysts. <i>Energy &amp; Fuels</i> , 2010, 24, 2825-2829.	5.1	16
44	Rapid fabrication of a large-area 3D silica colloidal crystal thin film by a room temperature floating self-assembly method. <i>Materials Letters</i> , 2009, 63, 1586-1589.	2.6	31
45	Effect of tungsten oxide loading on metathesis activity of ethene and 2-butene over WO <sub>3</sub> /SiO <sub>2</sub> catalysts. <i>Transition Metal Chemistry</i> , 2009, 34, 621-627.	1.4	60
46	Diffusion Coefficient of Petroleum Residue Fractions in a SiO <sub>2</sub> Model Catalyst. <i>Energy &amp; Fuels</i> , 2009, 23, 2862-2866.	5.1	13
47	Synthesis of monodisperse crosslinked polystyrene microspheres. <i>Petroleum Science</i> , 2008, 5, 375-378.	4.9	8
48	Large pore heavy oil processing catalysts prepared using colloidal particles as templates. <i>Catalysis Today</i> , 2007, 125, 143-148.	4.4	20
49	Synthesis and Catalytic Hydroisomerization Performance of SAPO-11 Molecular Sieve with Small Crystals. <i>Chinese Journal of Catalysis</i> , 2007, 28, 857-864.	14.0	24
50	Synthesis, characterization and hydroisomerization catalytic performance of nanosize SAPO-11 molecular sieves. <i>Catalysis Letters</i> , 2007, 118, 109-117.	2.6	25
51	Preparation of Three-Dimensionally Ordered Inorganic/Organic Bi-Continuous Composite Proton Conducting Membranes. <i>Chemistry of Materials</i> , 2005, 17, 5880-5883.	6.7	13
52	Kinetics of Formation of Monodisperse Colloidal Silica Particles through the Hydrolysis and Condensation of Tetraethylorthosilicate. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 4487-4493.	3.7	150
53	Characteristic Aspects of Formation of New Particles during the Growth of Monosize Silica Seeds. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 237-241.	9.4	111