

Anthony Shiaw-Tseh Chiang

List of Publications by Year in descending order

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2,586
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172457

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times ranked

2652
citing authors

#	ARTICLE	IF	CITATIONS
1	Dye adsorption in ZIF-8: The importance of external surface area. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 149-153.	4.4	62
2	Fabrication of Aluminum Nitride Thermal Substrate and Low-Temperature Die-Bonding Process for High Power LED. <i>Journal of Electronic Materials</i> , 2019, 48, 194-200.	2.2	2
3	Zirconia/Acrylate Nanocomposite Hard-Coat. <i>Recent Innovations in Chemical Engineering</i> , 2019, 11, 160-171.	0.4	0
4	Fully Solution-Processed Low-Voltage Driven Transparent Oxide Thin Film Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800192.	1.8	8
5	Low-voltage-driven organic phototransistors based on a solution-processed organic semiconductor channel and high k hybrid gate dielectric. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9838-9842.	5.5	9
6	Preparation and Evaluation of a Zirconia/Oligosiloxane Nanocomposite for LED Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9986-9993.	8.0	35
7	Growth of MFI zeolite film as corrosion protection layer of aluminum alloy. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 71-80.	4.4	14
8	A sol-gel titanium-silicon oxide/organic hybrid dielectric for low-voltage organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 968-972.	5.5	15
9	The Production of Dispersible Zirconia Nanocrystals: A Recent Patent Review. <i>Recent Innovations in Chemical Engineering</i> , 2015, 7, 76-95.	0.4	3
10	Natural zwitterionic organosulfurs as surface ligands for antifouling and responsive properties. <i>Biointerphases</i> , 2014, 9, 029010.	1.6	25
11	Some Observations on the Synthesis of Fully-Dispersible Nanocrystalline Zeolite ZSM-5. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7351-7359.	0.9	3
12	Hansen solubility parameter analysis on the dispersion of zirconia nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 140-147.	9.4	29
13	Anti-corrosion zeolite film by the dry-gel-conversion process. <i>Thin Solid Films</i> , 2013, 529, 327-332.	1.8	24
14	ZrO ₂ /epoxy nanocomposite for LED encapsulation. <i>Materials Chemistry and Physics</i> , 2012, 136, 868-876.	4.0	63
15	Carboxylic Acid-Directed Clustering and Dispersion of ZrO ₂ Nanoparticles in Organic Solvents: A Study by Small-Angle X-ray/Neutron Scattering and NMR. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11941-11950.	3.1	20
16	Synthesis and characterization of cubic periodic mesoporous organosilicas with a high loading of disulfide groups. <i>New Journal of Chemistry</i> , 2011, 35, 489.	2.8	16
17	Scratch-resistant zeolite anti-reflective coating on glass for solar applications. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1694-1700.	6.2	70
18	Some Observations on the Synthesis of Colloidal Beta Zeolite from a Clear Precursor Sol. <i>Science of Advanced Materials</i> , 2011, 3, 1011-1018.	0.7	4

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19	Rapid temperature-assisted sonochemical synthesis of mesoporous silica SBA-15. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 385-392.	4.4	29
20	Flexible and transparent moisture getter film containing zeolite. <i>Adsorption</i> , 2010, 16, 69-74.	3.0	11
21	Increasing the Productivity of Colloidal Zeolite Beta by Posthydrolysis Evaporation. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12191-12196.	3.7	12
22	An aqueous process for the production of fully dispersible t-ZrO ₂ nanocrystals. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 296-301.	5.3	14
23	A simple one-pot route to mesoporous silicas SBA-15 functionalized with exceptionally high loadings of pendant carboxylic acid groups. <i>Chemical Communications</i> , 2009, , 5018.	4.1	60
24	Facile synthesis and morphology control of highly ordered cubic mesoporous silica SBA-1 using short chain dodecyltrimethylammonium chloride as the structure-directing agent. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 323-329.	4.4	11
25	Direct Synthesis and Solid-State NMR Characterization of Cubic Mesoporous Silica SBA-1 Functionalized with Phenyl Groups. <i>Chemistry of Materials</i> , 2008, 20, 2412-2422.	6.7	16
26	Zeolite anti-reflection coating for transparent substrates. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1583-1589.	1.5	13
27	Grafting of cyclopentadienyl ruthenium complexes on aminosilane linker modified mesoporous SBA-15 silicates. <i>Dalton Transactions</i> , 2007, , 320-326.	3.3	12
28	Grafting of a tetrahydro-salen copper(II) complex on surface modified mesoporous materials and its catalytic behaviour. <i>Catalysis Communications</i> , 2006, 7, 302-307.	3.3	52
29	Direct synthesis, characterization and solid-state NMR spectroscopy of large-pore vinyl-functionalized cubic mesoporous silica FDU-12. <i>Microporous and Mesoporous Materials</i> , 2006, 97, 9-20.	4.4	32
30	Direct synthesis of vinyl-functionalized cubic mesoporous silica SBA-1. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 319-328.	4.4	40
31	Mesoporous silica powders and films—Pore size characterization by krypton adsorption. <i>Microporous and Mesoporous Materials</i> , 2006, 91, 244-253.	4.4	23
32	Grafting of η^5 -Cp(COOMe)MoCl(CO) ₃ on the surface of mesoporous MCM-41 and MCM-48 materials. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1007-1011.	1.8	31
33	Mechano-thermal nanoparticulate coatings for enhancing the cycle stability of LiCoO ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2337-2344.	4.0	11
34	Transparent Zeolite Films with Regular Surface Patterns. <i>Advanced Materials</i> , 2006, 18, 185-189.	21.0	18
35	Heterogenization of η^5 -C ₅ Me ₅ Ru(PPh ₃) ₂ Cl and Its Catalytic Application for Cyclopropanation of Styrene Using Ethyl Diazoacetate. <i>Synthesis</i> , 2006, 2006, 1682-1688.	2.3	1
36	Fabrication of Hierarchical Zeolitic Material from Zeolite Nanoprecursors and Macromolecular Template. <i>Chemistry Letters</i> , 2005, 34, 982-983.	1.3	9

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37	Aluminosilicate MCM-48 mesostructures assembled from dried zeolite precursors and Gemini surfactant. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 256-267.	4.4	10
38	Heterogenization of [Cu(NCCH ₃) ₆][B(C ₆ F ₅) ₄] ₂ and its application in catalytic olefin aziridination. <i>Applied Catalysis A: General</i> , 2005, 294, 161-167.	4.3	23
39	Heterogenization of Organometallic Molybdenum Complexes with Siloxane Functional Groups and their Catalytic Application. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 473-483.	4.3	74
40	Heterogenization of chiral molybdenum(VI) dioxo complexes on mesoporous materials and their application in catalysis. <i>Applied Catalysis A: General</i> , 2005, 281, 267-273.	4.3	68
41	Facile synthesis of stable cubic mesoporous silica SBA-1 over a broad temperature range with the aid of d-fructose. <i>Chemical Communications</i> , 2005, , 1058.	4.1	28
42	Rapid Synthesis of MFI Zeolite Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18804-18814.	2.6	91
43	Preformed Boehmite Nanoparticles As Coating Materials for Long-Cycling LiCoO ₂ . <i>Journal of Applied Electrochemistry</i> , 2004, 34, 715-722.	2.9	20
44	A simple mechano-thermal coating process for improved lithium battery cathode materials. <i>Journal of Power Sources</i> , 2004, 132, 172-180.	7.8	44
45	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). <i>Chemistry of Materials</i> , 2004, 16, 3168-3175.	6.7	175
46	Mesoporous silica with short-range MFI structure. <i>Microporous and Mesoporous Materials</i> , 2003, 60, 213-224.	4.4	52
47	Formation of Silicalite-1 Hollow Spheres by the Self-assembly of Nanocrystals. <i>Chemistry of Materials</i> , 2003, 15, 787-792.	6.7	97
48	Synthesis of Zeolitic Mesoporous Materials by Dry Gel Conversion under Controlled Humidity. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7006-7014.	2.6	104
49	Synthesis of silicalite nanocrystals via the steaming of surfactant protected precursors. <i>Microporous and Mesoporous Materials</i> , 2002, 54, 293-303.	4.4	45
50	Title is missing!. <i>Topics in Catalysis</i> , 2002, 20, 97-105.	2.8	82
51	Membranes and films of zeolite and zeolite-like materials. <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 1899-1910.	4.0	86
52	Preparation of Zirconia Nanocrystals from Concentrated Zirconium Aqueous Solutions. <i>Journal of Nanoparticle Research</i> , 2001, 3, 119-126.	1.9	11
53	Supported zeolite membrane by vapor-phase regrowth. <i>AIChE Journal</i> , 2000, 46, 616-625.	3.6	28
54	Heterogeneous Three-Site Lattice Model for Adsorption of Aromatics in ZSM-5 Zeolites: Temperature Dependence of Adsorption Isotherms. <i>Langmuir</i> , 1999, 15, 6091-6102.	3.5	17

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55	Complete separation conditions for a local equilibrium TCC adsorption unit. AICHE Journal, 1998, 44, 332-340.	3.6	23
56	Continuous chromatographic process based on SMB technology. AICHE Journal, 1998, 44, 1930-1932.	3.6	35
57	Equilibrium theory for simulated moving bed adsorption processes. AICHE Journal, 1998, 44, 2431-2441.	3.6	20
58	The synthesis of colloidal zeolite TPA'silicalite-1. Microporous and Mesoporous Materials, 1998, 26, 89-99.	4.4	53
59	Adsorption of Aromatics in Zeolites ZSM-5: A Thermodynamic~Calorimetric Study Based on the Model of Adsorption on Heterogeneous Adsorption Sites. Langmuir, 1997, 13, 1095-1103.	3.5	53
60	The fractal and percolation analysis of a polymeric Al ₂ O ₃ gel. Chemical Physics Letters, 1997, 278, 83-90.	2.6	22
61	Adsorption of aromatic compounds in large MFI zeolite crystals. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3445.	1.7	61
62	An analytical solution to equilibrium PSA cycles. Chemical Engineering Science, 1996, 51, 207-216.	3.8	20
63	Theory of adsorbed solutions: Analysis of one-dimensional systems. AICHE Journal, 1996, 42, 2155-2161.	3.6	2
64	Experiment and simulation of the recirculation flow in a CVD reactor for monolithic materials. Experimental Thermal and Fluid Science, 1996, 12, 45-51.	2.7	5
65	Radial flow rapid pressure swing adsorption. Adsorption, 1995, 1, 153-164.	3.0	10
66	CONFINED COAXIAL JET FLOWS INTO A COLD MODEL OF CVD CHAMBER. Chemical Engineering Communications, 1995, 135, 213-227.	2.6	0
67	Vapor-liquid equilibrium measurements and data analysis of isoprene and n-pentane mixture. Fluid Phase Equilibria, 1994, 102, 257-273.	2.5	5
68	Experimental study on a four-bed PSA air separation process. AICHE Journal, 1994, 40, 1976-1982.	3.6	11
69	A complementary pressure swing adsorption process configuration for air separation. Separation and Purification Technology, 1994, 4, 93-103.	0.7	7
70	Adsorption of Multicomponent Aromatics on Y Zeolite and Silicalite. Studies in Surface Science and Catalysis, 1993, , 81-88.	1.5	2
71	Preparation of TiO ₂ B ₂ O ₃ coating by the sol-gel method. Journal of Non-Crystalline Solids, 1992, 144, 53-62.	3.1	16
72	Multiple coating of titanium-boron oxide sol-gel on glass. Materials Research Bulletin, 1992, 27, 715-722.	5.2	0

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73	Lattice model for the adsorption of benzene in silicalite I. <i>AIChE Journal</i> , 1992, 38, 128-135.	3.6	30
74	Separation of Diethylbenzene Isomers on Silicalite in the Presence of High Pressure Carbon Dioxide and Propane. <i>Adsorption Science and Technology</i> , 1991, 8, 226-234.	3.2	1
75	Adsorption and diffusion of aromatics in AlPO ₄ -5. <i>Zeolites</i> , 1991, 11, 380-386.	0.5	46
76	Simulation of breakthrough curves by a moving zone collocation method. <i>Computers and Chemical Engineering</i> , 1989, 13, 281-290.	3.8	4
77	Arithmetic of PSA process scheduling. <i>AIChE Journal</i> , 1988, 34, 1910-1912.	3.6	21
78	Oxygen enrichment by pressure swing adsorption. <i>Industrial & Engineering Chemistry Research</i> , 1988, 27, 81-85.	3.7	3
79	Author's reply to comments by J. Caro et al.. <i>Chemical Engineering Science</i> , 1985, 40, 2171.	3.8	0
80	The initiation and growth of filamentous carbon from α -iron in H ₂ , CH ₄ , H ₂ O, CO ₂ , and CO gas mixtures. <i>Journal of Catalysis</i> , 1984, 85, 224-236.	6.2	127
81	The determination of zeolite crystal diffusivity by gas chromatographyâ€”I. Theoretical. <i>Chemical Engineering Science</i> , 1984, 39, 1451-1459.	3.8	43
82	The determination of zeolite crystal diffusivity by gas chromatographyâ€”II. Experimental. <i>Chemical Engineering Science</i> , 1984, 39, 1461-1468.	3.8	91
83	The age distribution from continuous biochemical reactors with cell reproduction by mitosis. <i>Journal of Theoretical Biology</i> , 1981, 89, 321-333.	1.7	1
84	THE AGE DISTRIBUTION FROM CONTINUOUS SELF-SEEDED PARTICULATE SYSTEMS. <i>Chemical Engineering Communications</i> , 1980, 4, 737-747.	2.6	5
85	Stability of continuous emulsion polymer reactors. <i>Journal of Applied Polymer Science</i> , 1979, 24, 1925-1934.	2.6	1
86	Stability of continuous emulsion polymer reactors. <i>Journal of Applied Polymer Science</i> , 1979, 24, 1935-1955.	2.6	3
87	Modeling the transient behavior of continuous emulsion polymer reactors. <i>AIChE Journal</i> , 1979, 25, 552-554.	3.6	13