

Ronald R Chance

List of Publications by Year in descending order

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46
papers

8,328
citations

136950

32
h-index

223800

46
g-index

47
all docs

47
docs citations

47
times ranked

6423
citing authors

#	ARTICLE	IF	CITATIONS
1	Chain-length dependence of electronic and electrochemical properties of conjugated systems: polyacetylene, polyphenylene, polythiophene, and polypyrrole. <i>Journal of the American Chemical Society</i> , 1983, 105, 6555-6559.	13.7	1,156
2	Highly conducting polyparaphenylene, polypyrrole, and polythiophene chains: Anab initiostudy of the geometry and electronic-structure modifications upon doping. <i>Physical Review B</i> , 1984, 29, 6761-6773.	3.2	693
3	Optical Nonlinearities in One-Dimensional-Conjugated Polymer Crystals. <i>Physical Review Letters</i> , 1976, 36, 956-959.	7.8	623
4	Comparative theoretical study of the doping of conjugated polymers: Polarons in polyacetylene and polyparaphenylene. <i>Physical Review B</i> , 1982, 26, 5843-5854.	3.2	568
5	Highly conducting charge-transfer complexes of poly(p-phenylene). <i>Journal of Chemical Physics</i> , 1979, 71, 1506-1507.	3.0	433
6	A nonempirical effective Hamiltonian technique for polymers: Application to polyacetylene and polydiacetylene. <i>Journal of Chemical Physics</i> , 1981, 75, 255-267.	3.0	347
7	Structural basis for semiconducting and metallic polymer dopant systems. <i>Chemical Reviews</i> , 1982, 82, 209-222.	47.7	332
8	Electrical and optical properties of highly conducting charge-transfer complexes of poly(p-phenylene). <i>Synthetic Metals</i> , 1980, 1, 307-320.	3.9	318
9	A planar-nonplanar conformational transition in conjugated polymer solutions. <i>Journal of Chemical Physics</i> , 1979, 70, 4387-4392.	3.0	314
10	Alcohol and water adsorption in zeolitic imidazolate frameworks. <i>Chemical Communications</i> , 2013, 49, 3245.	4.1	278
11	Exploring the Framework Hydrophobicity and Flexibility of ZIF-8: From Biofuel Recovery to Hydrocarbon Separations. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3618-3622.	4.6	277
12	Comments on the classical theory of energy transfer. <i>Journal of Chemical Physics</i> , 1975, 62, 2245-2253.	3.0	238
13	Thermochromism in a polydiacetylene crystal. <i>Journal of Chemical Physics</i> , 1977, 67, 3616-3618.	3.0	222
14	Ab initio effective Hamiltonian study of the electronic properties of conjugated polymers. <i>Journal of Chemical Physics</i> , 1982, 76, 3673-3678.	3.0	207
15	Thermal effects on the optical properties of single crystals and solution-cast films of urethane substituted polydiacetylenes. <i>Journal of Chemical Physics</i> , 1979, 71, 206-211.	3.0	204
16	Chromism in Polydiacetylene Solutions and Crystals. <i>Macromolecules</i> , 1980, 13, 396-398.	4.8	200
17	Highly Tunable Molecular Sieving and Adsorption Properties of Mixed-Linker Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 4191-4197.	13.7	192
18	Hollow Fiber Adsorbents for CO ₂ Removal from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7314-7324.	3.7	172

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19	Adsorption of Water and Ethanol in MFI-Type Zeolites. <i>Langmuir</i> , 2012, 28, 8664-8673.	3.5	161
20	Investigating the Intrinsic Ethanol/Water Separation Capability of ZIF-8: An Adsorption and Diffusion Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7214-7225.	3.1	153
21	Electrochemical doping of poly-(p-phenylene) with application to organic batteries. <i>Journal of the Chemical Society Chemical Communications</i> , 1982, , 361.	2.0	115
22	Intrinsic photoconduction in anthracene single crystals: Electric field dependence of hole and electron quantum yields. <i>Journal of Chemical Physics</i> , 1973, 59, 2269-2272.	3.0	113
23	Life Cycle Energy and Greenhouse Gas Emissions for an Ethanol Production Process Based on Blue-Green Algae. <i>Environmental Science & Technology</i> , 2010, 44, 8670-8677.	10.0	111
24	Effect of Short Chain Branching on the Coil Dimensions of Polyolefins in Dilute Solution. <i>Macromolecules</i> , 2001, 34, 6812-6820.	4.8	107
25	Ethanol and water adsorption in methanol-derived ZIF-71. <i>Chemical Communications</i> , 2011, 47, 8667.	4.1	97
26	Enabling Low-Cost CO ₂ Capture via Heat Integration. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 7550-7562.	3.7	96
27	Highly conducting charge-transfer complexes of a processible polymer: poly(p-phenylene sulphide). <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 348.	2.0	86
28	A Study of the Separation Principle in Size Exclusion Chromatography. <i>Macromolecules</i> , 2004, 37, 4304-4312.	4.8	68
29	Butane isomer transport properties of 6FDA-DMAC and MFI-DMAC mixed matrix membranes. <i>Journal of Membrane Science</i> , 2009, 343, 157-163.	8.2	59
30	Functionalization of the Internal Surface of Pure-Silica MFI Zeolite with Aliphatic Alcohols. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3543-3551.	3.1	56
31	Hollow fiber adsorbents for CO ₂ capture: Kinetic sorption performance. <i>Chemical Engineering Journal</i> , 2011, 171, 801-810.	12.7	56
32	CO ₂ sorption and desorption performance of thermally cycled hollow fiber sorbents. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 285-294.	4.6	47
33	Global Warming and Carbon-Negative Technology: Prospects for a Lower-Cost Route to a Lower-Risk Atmosphere. <i>Energy and Environment</i> , 2009, 20, 973-984.	4.6	34
34	In situ determination of the adsorption characteristics of a zeolite membrane. <i>Journal of Membrane Science</i> , 2004, 230, 91-98.	8.2	26
35	Formation of Defect-Free Latex Films on Porous Fiber Supports. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3568-3582.	8.0	26
36	Diffusion of water and ethanol in silicalite crystals synthesized in fluoride media. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 259-265.	4.4	24

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37	Torsion Potential in Polydiacetylene: Accurate Computations on Oligomers Extrapolated to the Polymer Limit. <i>Journal of the American Chemical Society</i> , 2010, 132, 13313-13319.	13.7	23
38	Fluorescence reabsorption in anthracene single crystals: Lifetime variations with emission wavelength and temperature. <i>Chemical Physics</i> , 1974, 4, 402-408.	1.9	17
39	Effect of Crystal Size on Framework Defects and Water Uptake in Fluoride Mediated Silicalite-1. <i>Chemistry of Materials</i> , 2014, 26, 4368-4376.	6.7	16
40	Anthropogenic CO_2 as a feedstock for the production of algal-based biofuels. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 72-81.	3.7	14
41	Membrane-Mediated Delivery of Carbon Dioxide for Consumption by Photoautotrophs: Eliminating Thermal Regeneration in Carbon Capture. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4673-4681.	3.7	12
42	Life cycle greenhouse gas emissions of different CO_2 supply options for an algal biorefinery. <i>Journal of CO_2 Utilization</i> , 2020, 40, 101213.	6.8	11
43	Biomass and pigment production for <i>Arthrospira platensis</i> via semi-continuous cultivation in photobioreactors: Temperature effects. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3081-3093.	3.3	10
44	Flow induced birefringence of conjugated polymer solutions. <i>Synthetic Metals</i> , 1989, 28, D689-D697.	3.9	6
45	Global evaluation of economics of microalgae-based biofuel supply chain using GIS-based framework. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1524-1541.	2.7	6
46	Lifecycle greenhouse gas emissions for an ethanol production process based on genetically modified cyanobacteria: CO_2 sourcing options. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1324-1334.	3.7	3