Ronald R Chance

List of Publications by Year in Descending Order

46 papers	7,330 citations	32 h-index	47 g-index
47 ext. papers	7,624 ext. citations	7.4 avg, IF	5.15 L-index

#	Paper	IF	Citations
46	Biomass and pigment production for Arthrospira platensis via semi-continuous cultivation in photobioreactors: Temperature effects. *Biotechnology and Bioengineering*, **2020**, 117, 3081-3093	4.9	7
45	Lifecycle greenhouse gas emissions for an ethanol production process based on genetically modified cyanobacteria: CO2 sourcing options. *Biofuels, Bioproducts and Biorefining*, **2020**, 14, 1324-1334	5.3	3
44	Life cycle greenhouse gas emissions of different CO2 supply options for an algal biorefinery. *Journal of CO2 Utilization*, **2020**, 40, 101213	7.6	4
43	Highly tunable molecular sieving and adsorption properties of mixed-linker zeolitic imidazolate frameworks. *Journal of the American Chemical Society*, **2015**, 137, 4191-7	16.4	155
42	Anthropogenic CO2 as a feedstock for the production of algal-based biofuels. *Biofuels, Bioproducts and Biorefining*, **2015**, 9, 72-81	5.3	13
41	Effect of Crystal Size on Framework Defects and Water Uptake in Fluoride Mediated Silicalite-1. *Chemistry of Materials*, **2014**, 26, 4368-4376	9.6	15
40	Investigating the Intrinsic Ethanol/Water Separation Capability of ZIF-8: An Adsorption and Diffusion Study. *Journal of Physical Chemistry C*, **2013**, 117, 7214-7225	3.8	127
39	Exploring the Framework Hydrophobicity and Flexibility of ZIF-8: From Biofuel Recovery to Hydrocarbon Separations. *Journal of Physical Chemistry Letters*, **2013**, 4, 3618-3622	6.4	242
38	Diffusion of water and ethanol in silicalite crystals synthesized in fluoride media. *Microporous and Mesoporous Materials*, **2013**, 170, 259-265	5.3	23
37	Alcohol and water adsorption in zeolitic imidazolate frameworks. *Chemical Communications*, **2013**, 49, 3245-7	5.8	230
36	Membrane-Mediated Delivery of Carbon Dioxide for Consumption by Photoautotrophs: Eliminating Thermal Regeneration in Carbon Capture. *Industrial & Engineering Chemistry Research*, **2012**, 51, 4673-4681	3.9	12
35	CO2 sorption and desorption performance of thermally cycled hollow fiber sorbents. *International Journal of Greenhouse Gas Control*, **2012**, 10, 285-294	4.2	40
34	Adsorption of water and ethanol in MFI-type zeolites. *Langmuir*, **2012**, 28, 8664-73	4	140
33	Formation of defect-free latex films on porous fiber supports. *ACS Applied Materials & Interfaces*, **2011**, 3, 3568-82	9.5	25
32	Ethanol and water adsorption in methanol-derived ZIF-71. *Chemical Communications*, **2011**, 47, 8667-9	5.8	87
31	Hollow fiber adsorbents for CO2 capture: Kinetic sorption performance. *Chemical Engineering Journal*, **2011**, 171, 801-810	14.7	48
30	Torsion potential in polydiacetylene: accurate computations on oligomers extrapolated to the polymer limit. *Journal of the American Chemical Society*, **2010**, 132, 13313-9	16.4	22

29	Enabling Low-Cost CO2 Capture via Heat Integration. *Industrial & Engineering Chemistry Research*, **2010**, 49, 7550-7562	3.9	85
28	Life cycle energy and greenhouse gas emissions for an ethanol production process based on blue-green algae. *Environmental Science & Technology*, **2010**, 44, 8670-7	10.3	101
27	Butane isomer transport properties of 6FDADAM and MFI-6FDADAM mixed matrix membranes. *Journal of Membrane Science*, **2009**, 343, 157-163	9.6	50
26	Hollow Fiber Adsorbents for CO2 Removal from Flue Gas. *Industrial & Engineering Chemistry Research*, **2009**, 48, 7314-7324	3.9	153
25	Global Warming and Carbon-Negative Technology: Prospects for a Lower-Cost Route to a Lower-Risk Atmosphere. *Energy and Environment*, **2009**, 20, 973-984	2.4	27
24	Functionalization of the Internal Surface of Pure-Silica MFI Zeolite with Aliphatic Alcohols. *Journal of Physical Chemistry C*, **2008**, 112, 3543-3551	3.8	51
23	A Study of the Separation Principle in Size Exclusion Chromatography. *Macromolecules*, **2004**, 37, 4304-4312	3.5	61
22	In situ determination of the adsorption characteristics of a zeolite membrane. *Journal of Membrane Science*, **2004**, 230, 91-98	9.6	25
21	Effect of Short Chain Branching on the Coil Dimensions of Polyolefins in Dilute Solution. *Macromolecules*, **2001**, 34, 6812-6820	5.5	91
20	Flow induced birefringence of conjugated polymer solutions. *Synthetic Metals*, **1989**, 28, D689-D697	3.6	5
19	Highly conducting polyparaphenylene, polypyrrole, and polythiophene chains: An ab initio study of the geometry and electronic-structure modifications upon doping. *Physical Review B*, **1984**, 29, 6761-6773	3.3	642
18	Chain-length dependence of electronic and electrochemical properties of conjugated systems: polyacetylene, polyphenylene, polythiophene, and polypyrrole. *Journal of the American Chemical Society*, **1983**, 105, 6555-6559	16.4	1049
17	Comparative theoretical study of the doping of conjugated polymers: Polarons in polyacetylene and polyparaphenylene. *Physical Review B*, **1982**, 26, 5843-5854	3.3	531
16	Structural basis for semiconducting and metallic polymer dopant systems. *Chemical Reviews*, **1982**, 82, 209-222	68.1	263
15	Ab initio effective Hamiltonian study of the electronic properties of conjugated polymers. *Journal of Chemical Physics*, **1982**, 76, 3673-3678	3.9	177
14	Electrochemical doping of poly-(p-phenylene) with application to organic batteries. *Journal of the Chemical Society Chemical Communications*, **1982**, 361		103
13	A nonempirical effective Hamiltonian technique for polymers: Application to polyacetylene and polydiacetylene. *Journal of Chemical Physics*, **1981**, 75, 255-267	3.9	329
12	Electrical and optical properties of highly conducting charge-transfer complexes of poly(p-phenylene). *Synthetic Metals*, **1980**, 1, 307-320	3.6	273

11	Highly conducting charge-transfer complexes of a processible polymer: poly(p-phenylene sulphide). *Journal of the Chemical Society Chemical Communications*, **1980**, 348		65
10	Chromism in Polydiacetylene Solutions and Crystals. *Macromolecules*, **1980**, 13, 396-398	5.5	177
9	A planar□nonplanar conformational transition in conjugated polymer solutions. *Journal of Chemical Physics*, **1979**, 70, 4387-4392	3.9	270
8	Highly conducting charge-transfer complexes of poly(p-phenylene). *Journal of Chemical Physics*, **1979**, 71, 1506-1507	3.9	351
7	Thermal effects on the optical properties of single crystals and solution-cast films of urethane substituted polydiacetylenes. *Journal of Chemical Physics*, **1979**, 71, 206-211	3.9	175
6	Thermochromism in a polydiacetylene crystal. *Journal of Chemical Physics*, **1977**, 67, 3616-3618	3.9	203
5	Optical Nonlinearities in One-Dimensional-Conjugated Polymer Crystals. *Physical Review Letters*, **1976**, 36, 956-959	7.4	540
4	Comments on the classical theory of energy transfer. *Journal of Chemical Physics*, **1975**, 62, 2245-2253	3.9	216
3	Fluorescence reabsorption in anthracene single crystals: Lifetime variations with emission wavelength and temperature. *Chemical Physics*, **1974**, 4, 402-408	2.3	16
2	Intrinsic photoconduction in anthracene single crystals: Electric field dependence of hole and electron quantum yields. *Journal of Chemical Physics*, **1973**, 59, 2269-2272	3.9	107
1	Global evaluation of economics of microalgae-based biofuel supply chain using GIS-based framework. *Korean Journal of Chemical Engineering*,1	2.8	0