

Ronald R Chance

List of Publications by Citations

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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	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	16.4	1049
45	Highly conducting polyparaphenylene, polypyrrole, and polythiophene chains: An ab initio study of the geometry and electronic-structure modifications upon doping. <i>Physical Review B</i> , 1984 , 29, 6761-6773	3.3	642
44	Optical Nonlinearities in One-Dimensional-Conjugated Polymer Crystals. <i>Physical Review Letters</i> , 1976 , 36, 956-959	7.4	540
43	Comparative theoretical study of the doping of conjugated polymers: Polarons in polyacetylene and polyparaphenylene. <i>Physical Review B</i> , 1982 , 26, 5843-5854	3.3	531
42	Highly conducting charge-transfer complexes of poly(p-phenylene). <i>Journal of Chemical Physics</i> , 1979 , 71, 1506-1507	3.9	351
41	A nonempirical effective Hamiltonian technique for polymers: Application to polyacetylene and polydiacetylene. <i>Journal of Chemical Physics</i> , 1981 , 75, 255-267	3.9	329
40	Electrical and optical properties of highly conducting charge-transfer complexes of poly(p-phenylene). <i>Synthetic Metals</i> , 1980 , 1, 307-320	3.6	273
39	A planar/nonplanar conformational transition in conjugated polymer solutions. <i>Journal of Chemical Physics</i> , 1979 , 70, 4387-4392	3.9	270
38	Structural basis for semiconducting and metallic polymer dopant systems. <i>Chemical Reviews</i> , 1982 , 82, 209-222	68.1	263
37	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	6.4	242
36	Alcohol and water adsorption in zeolitic imidazolate frameworks. <i>Chemical Communications</i> , 2013 , 49, 3245-7	5.8	230
35	Comments on the classical theory of energy transfer. <i>Journal of Chemical Physics</i> , 1975 , 62, 2245-2253	3.9	216
34	Thermochromism in a polydiacetylene crystal. <i>Journal of Chemical Physics</i> , 1977 , 67, 3616-3618	3.9	203
33	Chromism in Polydiacetylene Solutions and Crystals. <i>Macromolecules</i> , 1980 , 13, 396-398	5.5	177
32	Ab initio effective Hamiltonian study of the electronic properties of conjugated polymers. <i>Journal of Chemical Physics</i> , 1982 , 76, 3673-3678	3.9	177
31	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	3.9	175
30	Highly tunable molecular sieving and adsorption properties of mixed-linker zeolitic imidazolate frameworks. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4191-7	16.4	155

29	Hollow Fiber Adsorbents for CO ₂ Removal from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7314-7324	3.9	153
28	Adsorption of water and ethanol in MFI-type zeolites. <i>Langmuir</i> , 2012 , 28, 8664-73	4	140
27	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	3.8	127
26	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	3.9	107
25	Electrochemical doping of poly-(p-phenylene) with application to organic batteries. <i>Journal of the Chemical Society Chemical Communications</i> , 1982 , 361		103
24	Life cycle energy and greenhouse gas emissions for an ethanol production process based on blue-green algae. <i>Environmental Science & Technology</i> , 2010 , 44, 8670-7	10.3	101
23	Effect of Short Chain Branching on the Coil Dimensions of Polyolefins in Dilute Solution. <i>Macromolecules</i> , 2001 , 34, 6812-6820	5.5	91
22	Ethanol and water adsorption in methanol-derived ZIF-71. <i>Chemical Communications</i> , 2011 , 47, 8667-9	5.8	87
21	Enabling Low-Cost CO ₂ Capture via Heat Integration. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 7550-7562	3.9	85
20	Highly conducting charge-transfer complexes of a processible polymer: poly(p-phenylene sulphide). <i>Journal of the Chemical Society Chemical Communications</i> , 1980 , 348		65
19	A Study of the Separation Principle in Size Exclusion Chromatography. <i>Macromolecules</i> , 2004 , 37, 4304-4312	3.52	61
18	Functionalization of the Internal Surface of Pure-Silica MFI Zeolite with Aliphatic Alcohols. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3543-3551	3.8	51
17	Butane isomer transport properties of 6FDA/DAM and MFI/6FDA/DAM mixed matrix membranes. <i>Journal of Membrane Science</i> , 2009 , 343, 157-163	9.6	50
16	Hollow fiber adsorbents for CO ₂ capture: Kinetic sorption performance. <i>Chemical Engineering Journal</i> , 2011 , 171, 801-810	14.7	48
15	CO ₂ sorption and desorption performance of thermally cycled hollow fiber sorbents. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 10, 285-294	4.2	40
14	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	2.4	27
13	Formation of defect-free latex films on porous fiber supports. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3568-82	9.5	25
12	In situ determination of the adsorption characteristics of a zeolite membrane. <i>Journal of Membrane Science</i> , 2004 , 230, 91-98	9.6	25

11	Diffusion of water and ethanol in silicalite crystals synthesized in fluoride media. <i>Microporous and Mesoporous Materials</i> , 2013 , 170, 259-265	5.3	23
10	Torsion potential in polydiacetylene: accurate computations on oligomers extrapolated to the polymer limit. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13313-9	16.4	22
9	Fluorescence reabsorption in anthracene single crystals: Lifetime variations with emission wavelength and temperature. <i>Chemical Physics</i> , 1974 , 4, 402-408	2.3	16
8	Effect of Crystal Size on Framework Defects and Water Uptake in Fluoride Mediated Silicalite-1. <i>Chemistry of Materials</i> , 2014 , 26, 4368-4376	9.6	15
7	Anthropogenic CO ₂ as a feedstock for the production of algal-based biofuels. <i>Biofuels, Bioproducts and Biorefining</i> , 2015 , 9, 72-81	5.3	13
6	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	3.9	12
5	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	4.9	7
4	Flow induced birefringence of conjugated polymer solutions. <i>Synthetic Metals</i> , 1989 , 28, D689-D697	3.6	5
3	Life cycle greenhouse gas emissions of different CO ₂ supply options for an algal biorefinery. <i>Journal of CO₂ Utilization</i> , 2020 , 40, 101213	7.6	4
2	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	5.3	3
1	Global evaluation of economics of microalgae-based biofuel supply chain using GIS-based framework. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	0