Eli Ruckenstein

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/92113/publications.pdf

Version: 2024-02-01

234 papers	7,243 citations	76031 42 h-index	84171 75 g-index
236 all docs	236 docs citations	236 times ranked	7498 citing authors

#	Article	IF	Citations
1	<scp>Vacancyâ€“vacancy</scp> pairs induced new phase formation in carbon boride: A design principle to achieve superior performance Li/Naâ€ion battery anodes. EcoMat, 2022, 4, .	6.8	16
2	Radicals and molecular products from the gas-phase pyrolysis of lignin model compounds: Coniferyl alcohol, theory and experiment. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105413.	2.6	2
3	Reshaping two-dimensional MoS2 for superior magnesium-ion battery anodes. Journal of Colloid and Interface Science, 2021, 597, 401-408.	5.0	16
4	Screening and Improving Porous Materials for Ultradeep Desulfurization of Gasoline. Industrial & Engineering Chemistry Research, 2021, 60, 604-613.	1.8	6
5	Bco-C24: A new 3D Dirac nodal line semi-metallic carbon honeycomb for high performance metal-ion battery anodes. Carbon, 2020, 159, 542-548.	5.4	30
6	Effect of chemical aging of aqueous organic aerosols on the rate of their steady-state nucleation. Physical Chemistry Chemical Physics, 2020, 22, 17612-17619.	1.3	4
7	OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part II. Kinetic Analysis. Journal of Physical Chemistry A, 2020, 124, 4875-4904.	1.1	5
8	Comment on â€œDry reforming of methane by stable Niâ€“Mo nanocatalysts on single-crystalline MgOâ€• Science, 2020, 368, .	6.0	48
9	Bond Number Revisited: Axisymmetric Macroscopic Pendant Drop. Langmuir, 2020, 36, 6512-6520.	1.6	3
10	Kinetic equation of concurrent nucleation and chemical aging of an ensemble of aqueous organic aerosols. Physical Review E, 2020, 101, 062801.	0.8	3
11	OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part III. Kinetics of H-Abstraction by H, OH, and CH₃ Radicals. Journal of Physical Chemistry A, 2020, 124, 4905-4915.	1.1	3
12	New Findings on an Old Question: Can Defectâ€Free Graphene Monolayers be Superior Metalâ€ion Battery Anodes?. Advanced Sustainable Systems, 2020, 4, 1900152.	2.7	10
13	Reconfiguring graphene for high-performance metal-ion battery anodes. Energy Storage Materials, 2019, 16, 619-624.	9.5	143
14	An analog to Bond number for pendant nanodrops. Physical Chemistry Chemical Physics, 2019, 21, 17314-17322.	1.3	1
15	Mechanical deformation: A feasible route for reconfiguration of inner interfaces to modulate the high performance of three-dimensional porous carbon material anodes in stretchable lithium-ion batteries. Journal of Colloid and Interface Science, 2019, 555, 431-437.	5.0	8
16	Mechanical deformation induced charge redistribution to promote the high performance of stretchable magnesium-ion batteries based on two-dimensional C₂N anodes. Nanoscale, 2019, 11, 15472-15478.	2.8	14
17	Formation and evolution of aqueous organic aerosols via concurrent condensation and chemical aging. Advances in Colloid and Interface Science, 2019, 265, 45-67.	7.0	9
18	Functionalization: An Effective Approach to Open and Close Channels for Electron Transfer in Nitrogenated Holey Graphene C₂N Anodes in Sodium-Ion Batteries. Journal of Physical Chemistry Letters, 2019, 10, 721-726.	2.1	37

#	Article	IF	Citations
19	Depletion of atmospheric organic trace gases due to their uptake by an ensemble of aqueous aerosols evolving via concurrent condensation and chemical aging. Physical Chemistry Chemical Physics, 2019, 21, 13090-13098.	1.3	4
20	Two-Dimensional Carbon-Based Auxetic Materials for Broad-Spectrum Metal-Ion Battery Anodes. Journal of Physical Chemistry Letters, 2019, 10, 3269-3275.	2.1	64
21	A heuristic approach for nanodrops on a smooth solid surface. Physical Chemistry Chemical Physics, 2019, 21, 13215-13221.	1.3	0
22	OH-Initiated Reactions of p-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part I. Potential Energy Surface Analysis. Journal of Physical Chemistry A, 2019, 123, 2570-2585.	1.1	14
23	Nanoseparation of Nanoparticle Mixtures with Similar Surface Structures through a Facile Two-Step Approach. Industrial & Engineering Chemistry Research, 2019, 58, 3420-3426.	1.8	3
24	Bond Number Revisited: Two-Dimensional Macroscopic Pendant Drop. Journal of Physical Chemistry B, 2019, 123, 10294-10300.	1.2	4
25	Nitrogenated holey graphene C2N monolayer anodes for lithium- and sodium-ion batteries with high performance. Energy Storage Materials, 2019, 16, 574-580.	9.5	100
26	Popgraphene: a new 2D planar carbon allotrope composed of 5â€“8â€“5 carbon rings for high-performance lithium-ion battery anodes from bottom-up programming. Journal of Materials Chemistry A, 2018, 6, 6815-6821.	5.2	212
27	Effect of Heterogeneous Chemical Reactions on the KÃ¶hler Activation of Aqueous Organic Aerosols. Journal of Physical Chemistry A, 2018, 122, 4322-4337.	1.1	8
28	Semimetallic carbon honeycombs: new three-dimensional graphene allotropes with Dirac cones. Nanoscale, 2018, 10, 2748-2754.	2.8	43
29	Anomalous Attachment Behavior of Nanoparticles inside Narrow Channels. Vadose Zone Journal, 2018, 17, 1-9.	1.3	3
30	Roaming-like Mechanism for Dehydration of Diol Radicals. Journal of Physical Chemistry A, 2018, 122, 9738-9754.	1.1	7
31	Does the Enthalpy of Heterogeneous Chemical Reactions Affect the Formation of Aqueous Secondary Organic Aerosols?. Journal of Physical Chemistry Letters, 2018, 9, 5311-5316.	2.1	6
32	Shape and Stability of a Pendant Nanodrop. Journal of Physical Chemistry B, 2018, 122, 8284-8292.	1.2	4
33	On the surface tension and Zeta potential of electrolyte solutions. Advances in Colloid and Interface Science, 2017, 244, 90-99.	7.0	35
34	Molecular Products and Fundamentally Based Reaction Pathways in the Gas-Phase Pyrolysis of the Lignin Model Compound p-Coumaryl Alcohol. Journal of Physical Chemistry A, 2017, 121, 3352-3371.	1.1	34
35	Free energy of formation of a crystal nucleus in incongruent solidification: Implication for modeling the crystallization of aqueous nitric acid droplets in polar stratospheric clouds. Journal of Chemical Physics, 2017, 146, 134709.	1.2	5
36	Dependence of homogeneous crystal nucleation in water droplets on their radii and its implication for modeling the formation of ice particles in cirrus clouds. Physical Chemistry Chemical Physics, 2017, 19, 20075-20081.	1.3	6

#	Article	IF	Citations
37	Mobile Monomers and Dimers in Precipitation Kinetics: a Microscopic Approach. Journal of Physical Chemistry B, 2017, 121, 854-862.	1.2	2
38	Revisiting the polytopal rearrangements in penta-coordinate d⁷-metallocomplexes: modified Berry pseudorotation, octahedral switch, and butterfly isomerization. Chemical Science, 2017, 8, 5512-5525.	3.7	18
39	Kinetics of Supersaturated Solution with Restricted Size of Precipitates in the Presence of Dimer Adsorption/Emission and Monomerâ€“Monomer Agglomeration. Journal of Physical Chemistry B, 2017, 121, 10125-10132.	1.2	0
40	Determination of the Solidâ€“Vapor Interfacial Tension of Nitric Acid Dihydrate Crystals via Experiments on the Freezing of Aqueous Nitric Acid Droplets. Journal of Physical Chemistry C, 2016, 120, 28031-28037.	1.5	2
41	Calculation of nanodrop profile from fluid density distribution. Advances in Colloid and Interface Science, 2016, 231, 15-22.	7.0	3
42	Fluid transition layer between rigid solute and liquid solvent: is there depletion or enrichment?. Physical Chemistry Chemical Physics, 2016, 18, 7888-7902.	1.3	1
43	Effect of â€œReducibleâ€•Titania Promotion on the Mechanism of H-Migration in Pd/SiO2 Clusters. Catalysis Letters, 2016, 146, 398-423.	1.4	4
44	Contact angle of a nanodrop on a nanorough solid surface. Nanoscale, 2015, 7, 3088-3099.	2.8	14
45	Effect of Water Hydrogen Bonding on the Solvent-Mediated â€œOscillatoryâ€•Repulsion of C₆₀ Fullerenes in Water. Journal of Physical Chemistry Letters, 2015, 6, 1761-1766.	2.1	7
46	Temperature dependence of the evaporation lengthscale for water confined between two hydrophobic plates. Journal of Colloid and Interface Science, 2015, 449, 226-235.	5.0	3
47	Hydrated Ions: From Individual Ions to Ion Pairs to Ion Clusters. Journal of Physical Chemistry B, 2015, 119, 12671-12676.	1.2	57
48	A novel approach to the theory of homogeneous and heterogeneous nucleation. Advances in Colloid and Interface Science, 2015, 215, 13-27.	7.0	6
49	The solvent-induced interaction of spherical solutes in associated and non-associated liquids. Journal of Chemical Physics, 2014, 141, 034705.	1.2	4
50	Thermodynamics of Water Condensation on a Primary Marine Aerosol Coated by Surfactant Organic Molecules. Journal of Physical Chemistry A, 2014, 118, 9879-9889.	1.1	12
51	Dihydrogen Catalysis: A Remarkable Avenue in the Reactivity of Molecular Hydrogen. Catalysis Reviews - Science and Engineering, 2014, 56, 403-475.	5.7	20
52	Nanomembrane Containing a Nanopore in an Electrolyte Solution: A Molecular Dynamics Approach. Journal of Physical Chemistry Letters, 2014, 5, 2979-2982.	2.1	34
53	Mechanism of Iron Carbonyl-Catalyzed Hydrogenation of Ethylene. 1. Theoretical Exploration of Molecular Pathways. Journal of Physical Chemistry A, 2013, 117, 10912-10932.	1.1	13
54	Dihydrogen Catalysis: A Degradation Mechanism for N₂-Fixation Intermediates. Journal of Physical Chemistry A, 2012, 116, 11618-11642.	1.1	16

#	Article	IF	Citations
55	Self-assembly of Ï€-shaped copolymers. Soft Matter, 2012, 8, 1327-1333.	1.2	28
56	Formation of complex colloidal particles: morphologies and mechanisms. Soft Matter, 2012, 8, 8911.	1.2	17
57	Encapsulation of the interstellar abundant H₃⁺ in a C₆₀ fullerene. International Journal of Quantum Chemistry, 2011, 111, 3695-3700.	1.0	3
58	Nanodrop on a nanorough hydrophilic solid surface: Contact angle dependence on the size, arrangement, and composition of the pillars. Journal of Colloid and Interface Science, 2011, 359, 304-310.	5.0	28
59	Effect of soluteâ€“solute and soluteâ€“solvent interactions on the kinetics of nucleation in liquids. Journal of Colloid and Interface Science, 2010, 342, 528-532.	5.0	6
60	Kinetics of heterogeneous nucleation on a rough surface: Nucleation of a liquid phase in nanocavities. Journal of Colloid and Interface Science, 2010, 351, 277-282.	5.0	27
61	Symmetry breaking in confined fluids. Advances in Colloid and Interface Science, 2010, 154, 56-76.	7.0	7
62	Microscopic description of a drop on a solid surface. Advances in Colloid and Interface Science, 2010, 157, 1-33.	7.0	26
63	CH3COONa as an effective catalyst for methoxycarbonylation of 1,6-hexanediamine by dimethyl carbonate to dimethylhexane-1,6-dicarbamate. Green Chemistry, 2010, 12, 483.	4.6	40
64	Replication Route Synthesis of Mesoporous Titaniumâ€“Cobalt Oxides and Their Photocatalytic Activity in the Degradation of Methyl Orange. Catalysis Letters, 2009, 129, 26-38.	1.4	8
65	Dependence of the macroscopic contact angle on the liquid-solid interaction parameters and temperature. Journal of Chemical Physics, 2009, 130, 184712.	1.2	12
66	Simple expression for the dependence of the nanodrop contact angle on liquid-solid interactions and temperature. Journal of Chemical Physics, 2009, 130, 044709.	1.2	19
67	A kinetic model for the premelting of a crystalline structure. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 134-144.	1.2	7
68	Cellulose and Glass Fiber Affinity Membranes for the Chromatographic Separation of Biomolecules. Biotechnology Progress, 2008, 20, 13-25.	1.3	36
69	Reply to â€œComment on â€˜The Kirkwoodâ€“Buff Theory of Solutions and the Local Composition of Liquid Mixtures'â€• Journal of Physical Chemistry B, 2008, 112, 5876-5877.	1.2	2
70	Kinetic Model for the Sublimation of a Solid and Evaporation of Colloidal Particles from a Solid Substrate. Journal of Physical Chemistry C, 2008, 112, 1621-1627.	1.5	2
71	Nanodrop on a nanorough solid surface: Density functional theory considerations. Journal of Chemical Physics, 2008, 129, 014708.	1.2	50
72	Microscopic calculation of the sticking force for nanodrops on an inclined surface. Journal of Chemical Physics, 2008, 129, 114709.	1.2	16

#	Article	IF	Citations
73	Steam-Reforming Product (H₂/CO₂Mixture) Used as a Hydrogen Source for Hydrogen Storage in Li₃N. Industrial & Engineering Chemistry Research, 2007, 46, 5940-5942.	1.8	7
74	Cooperativity in Ordinary Ice and Breaking of Hydrogen Bonds. Journal of Physical Chemistry B, 2007, 111, 7114-7121.	1.2	17
75	Preferential hydration and solubility of proteins in aqueous solutions of polyethylene glycol. Biophysical Chemistry, 2006, 120, 188-198.	1.5	43
76	Effect of salts and organic additives on the solubility of proteins in aqueous solutions. Advances in Colloid and Interface Science, 2006, 123-126, 97-103.	7.0	67
77	Preparation of densely grafted poly(aniline-2-sulfonic acid-co-aniline)s as novel water-soluble conducting copolymers. Journal of Polymer Science Part A, 2005, 43, 1090-1099.	2.5	11
78	Preparation of oligoamide-ended poly(ethylene glycol) and hydrogen-bonding-assisted formation of aggregates and nanoscale fibers. Journal of Polymer Science Part A, 2005, 43, 1119-1128.	2.5	17
79	Long-term stability of an ambient self-curable latex based on colloidal dispersions in water of two reactive polymers. Journal of Polymer Science Part A, 2005, 43, 2598-2605.	2.5	2
80	High Reversible Hydrogen Capacity of LiNH2/Li3N Mixtures. Industrial & Engineering Chemistry Research, 2005, 44, 1510-1513.	1.8	32
81	Treatment of Dilute Clusters of Methanol and Water by ab Initio Quantum Mechanical Calculations. Journal of Physical Chemistry A, 2005, 109, 807-815.	1.1	15
82	Efficient Surface Grafting of Luminescent Silicon Quantum Dots by Photoinitiated Hydrosilylation. Langmuir, 2005, 21, 6054-6062.	1.6	271
83	Vâ€“Mgâ€“O Prepared via a Mesoporous Pathway: A Low-Temperature Catalyst for the Oxidative Dehydrogenation of Propane to Propene. Catalysis Letters, 2004, 94, 217-221.	1.4	23
84	Synthesis of a water-soluble diblock copolymer of polysulfonic diphenyl aniline and poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	25
85	Highly soluble conducting poly(ethylene oxide) grafted at two sites of poly(o-aminobenzyl alcohol). Journal of Polymer Science Part A, 2004, 42, 4756-4764.	2.5	5
86	On the Shape and Stability of a Drop on a Solid Surface. Journal of Physical Chemistry B, 2004, 108, 19330-19338.	1.2	31
87	Comments on the â€œOsmotic Coefficients and Surface Tensions of Aqueous Electrolyte Solutions: Role of the Dispersion Forcesâ€• Journal of Physical Chemistry B, 2004, 108, 20479-20481.	1.2	7
88	Microcontact and Macrocontact Angles and the Drop Stability on a Bare Surface. Journal of Physical Chemistry B, 2004, 108, 19339-19347.	1.2	18
89	Pore Size Distribution of Single-Walled Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2004, 43, 708-711.	1.8	35
90	Catalytic Conversion of Methane to Synthesis Gas by Partial Oxidation and CO2 Reforming. Advances in Catalysis, 2004, 48, 297-345.	0.1	272

#	Article	IF	Citations
91	Title is missing!. Catalysis Letters, 2003, 88, 147-154.	1.4	12
92	Specific ion effects via ion hydration: II. Double layer interaction. Advances in Colloid and Interface Science, 2003, 105, 177-200.	7.0	46
93	Water-Soluble Conducting Poly(ethylene oxide)-Grafted Polydiphenylamine Synthesis through a â€œGraft Ontoâ€•Process. Macromolecules, 2003, 36, 9971-9978.	2.2	42
94	H2Storage in Li3N. Temperature-Programmed Hydrogenation and Dehydrogenation. Industrial & Engineering Chemistry Research, 2003, 42, 5135-5139.	1.8	100
95	Transfer Coefficients in Complex Cases by Scaling the Transport Equations. Industrial & Engineering Chemistry Research, 2003, 42, 2525-2529.	1.8	2
96	Ab initio quantum chemical calculations for fullerene cages with large holes. Journal of Chemical Physics, 2003, 119, 10073-10080.	1.2	54
97	Shape dependent small cluster kinetics in the two-dimensional Ising model beyond the classical approximations. Journal of Chemical Physics, 2003, 119, 806-813.	1.2	3
98	A closed reduced description of the kinetics of phase transformation in a lattice system based on Glauberâ€™s master equation. Journal of Chemical Physics, 2003, 119, 9640-9650.	1.2	6
99	Effect of shape on the critical nucleus size in a three-dimensional Ising model: Energetic and kinetic approaches. Journal of Chemical Physics, 2002, 117, 7732-7737.	1.2	9
100	Influence of cluster shape upon its growth in a two-dimensional Ising model. Journal of Chemical Physics, 2002, 117, 4542-4549.	1.2	6
101	The Interaction between Two Fluctuating Phospholipid Bilayers. Langmuir, 2002, 18, 4179-4182.	1.6	5
102	The Coupling between the Hydration and Double Layer Interactions. Langmuir, 2002, 18, 7584-7593.	1.6	63
103	BINARY MgO-BASED SOLID SOLUTION CATALYSTS FOR METHANE CONVERSION TO SYNGAS. Catalysis Reviews - Science and Engineering, 2002, 44, 423-453.	5.7	304
104	Scaling Analysis of Coating of a Plate or a Fiber. Journal of Colloid and Interface Science, 2002, 246, 393-400.	5.0	17
105	Polyethylene-Palygorskite nanocomposite prepared via in situ coordinated polymerization. Polymer Composites, 2002, 23, 658-665.	2.3	11
106	Free Energy and Thermal Fluctuations of Neutral Lipid Bilayers. Langmuir, 2001, 17, 2455-2463.	1.6	10
107	On the Stability of Lyotropic Lamellar Liquid Crystals and the Thicknesses of Their Lamellae. Langmuir, 2001, 17, 5464-5475.	1.6	10
108	Novel Monodisperse Functional (Co)polymers Based on the Selective Living Anionic Polymerization of a New Bifunctional Monomer,trans,trans-1-Methacryloyloxy-2,4-hexadiene. Macromolecules, 2001, 34, 3587-3593.	2.2	19

#	Article	IF	Citations
109	Synthesis of Mesoporous Vâ^'Mgâ^'O Nanofibers. Nano Letters, 2001, 1, 739-742.	4.5	13
110	Well-defined poly(2-hydroxyethyl methacrylate) and its amphiphilic block copolymers via acidolysis of anionically synthesized poly(2-vinyloxyethyl methacrylate). Polymer Bulletin, 2001, 47, 113-119.	1.7	9
111	Polyaniline co-doped with camphor sulfonic and hydrochloric acids by chemical oxidation in aqueous solution. Journal of Applied Polymer Science, 2001, 79, 80-85.	1.3	16
112	A dynamic mechanical and thermal analysis of unplasticized and plasticized poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (alc	1.3	61
113	On the viscoelastic properties of poly(vinyl alcohol) and chemically crosslinked poly(vinyl alcohol). Journal of Applied Polymer Science, 2001, 82, 1816-1823.	1.3	82
114	Novel copolymer networks via the combination of polyaddition and anionic polymerization. Journal of Polymer Science Part A, 2001, 39, 117-126.	2.5	6
115	An ambient self-curable latex based on colloidal dispersions in water of two functionalized polymers and the thermally reversible crosslinked films generated. Journal of Polymer Science Part A, 2001, 39, 389-397.	2.5	7
116	Concentrated emulsion pathway to self-compatibilization of polymer blends. Journal of Polymer Science Part A, 2001, 39, 757-764.	2.5	5
117	Role of the Hydration Force in the Stability of Colloids at High Ionic Strengths. Langmuir, 2001, 17, 7061-7070.	1.6	72
118	Crosslinking of chlorine-containing polymers by dicyclopentadiene dicarboxylic salts. Journal of Polymer Science Part A, 2000, 38, 818-825.	2.5	15
119	A successive route to amphiphilic graft copolymers with a hydrophilic poly(3-hydroxypropyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2000, 38, 1195-1202.	2.5	8
120	SiO2-poly(amidoamine) dendrimer inorganic/organic hybrids. Journal of Polymer Science Part A, 2000, 38, 1443-1449.	2.5	26
121	Thermally reversible covalently bonded linear polymers prepared from a dihalide monomer and a salt of dicyclopentadiene dicarboxylic acid. Journal of Polymer Science Part A, 2000, 38, 1662-1672.	2.5	10
122	Polyaddition of divinyloxyl compounds with diphenol or diol to novel degradable polymers. Journal of Polymer Science Part A, 2000, 38, 1848-1851.	2.5	8
123	Self-polyaddition of hydroxyalkyl vinyl ethers. Journal of Polymer Science Part A, 2000, 38, 3751-3760.	2.5	30
124	Emulsion procedures for thermally reversible covalent crosslinking of polymers. Journal of Polymer Science Part A, 2000, 38, 4373-4384.	2.5	7
125	A density functional theory based on the universality of the free energy density functional. Journal of Chemical Physics, 2000, 112, 8079-8082.	1.2	73
126	Covalent Cross-Linking of Polymers through Ionene Formation and Their Thermal De-Cross-Linking. Macromolecules, 2000, 33, 8992-9001.	2.2	28

#	Article	IF	Citations
127	A new density functional approach to nonuniform Lennard-Jones fluids. Journal of Chemical Physics, 2000, 112, 5242-5243.	1.2	20
128	A Novel Successive Route to Well-Defined Water-Soluble Poly(2,3-dihydroxypropyl methacrylate) and Amphiphilic Block Copolymers Based on an Osmylation Reaction. Macromolecules, 2000, 33, 4738-4744.	2.2	34
129	One-Pot, Three-Step Synthesis of Amphiphilic Comblike Copolymers with Hydrophilic Backbone and Hydrophobic Side Chains. Macromolecules, 2000, 33, 814-819.	2.2	35
130	Membrane Chromatography: Preparation and Applications to Protein Separation. Biotechnology Progress, 1999, 15, 1003-1019.	1.3	181
131	Isotopic study of the reaction of methane with the lattice oxygen of a NiO/MgO solid solution. Catalysis Letters, 1999, 57, 167-169.	1.4	17
132	Monodisperse core/shell latex particles containing carboxylic acid groups and their optimum acid content for pore generation. Journal of Applied Polymer Science, 1999, 71, 1455-1460.	1.3	11
133	Control of pore generation and pore size in nanoparticles of poly(styrene-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 T	1.3	18
134	Core-shell latex particles consisting of polysiloxane-poly(styrene-methyl methacrylate-acrylic acid): Preparation and pore generation. Journal of Applied Polymer Science, 1999, 73, 2235-2245.	1.3	43
135	Grafting byin situ coupling of epoxy groups of a living copolymer with an anionic living polymer. Journal of Polymer Science Part A, 1999, 37, 105-112.	2.5	8
136	Syndiospecific polymerization of styrene using fluorinated indenyltitanium complexes. Journal of Polymer Science Part A, 1999, 37, 2481-2488.	2.5	31
137	Controlled radical polymerization catalyzed by copper(I)-sparteine complexes. , 1999, 37, 4191-4197.		25
138	Self-compatibilization of polymer blends prepared via functionalized concentrated emulsion polymerization. Journal of Polymer Science Part A, 1999, 37, 4233-4240.	2.5	8
139	Thermally reversible linking of halide-containing polymers by potassium dicyclopentadienedicarboxylate. Journal of Polymer Science Part A, 1999, 37, 4390-4401.	2.5	16
140	A Novel Breakable Cross-Linker and pH-Responsive Star-Shaped and Gel Polymers. Macromolecules, 1999, 32, 3979-3983.	2.2	41
141	Composite Zeolite-Based Catalysts and Sorbents. Catalysis Reviews - Science and Engineering, 1999, 41, 43-113.	5.7	37
142	Well-Defined Graft Copolymers Based on the Selective Living Anionic Polymerization of the Bifunctional Monomer 4-(Vinylphenyl)-1-butene. Macromolecules, 1999, 32, 6082-6087.	2.2	28
143	Surfactant Aggregation in Nonionic Polymer Solutions. Langmuir, 1999, 15, 8086-8089.	1.6	14
144	Selective Living Anionic Polymerization of a Novel Bifunctional Monomer 4-(Vinylphenyl)-1-butene and the Preparation of Uniform Size Functional Polymers and Amphiphilic Block Copolymers. Macromolecules, 1999, 32, 5495-5500.	2.2	65

#	Article	IF	Citations
145	Coreâ€“shell latex particles consisting of polysiloxaneâ€“poly(styrene-methyl methacrylate-acrylic acid): Preparation and pore generation. Journal of Applied Polymer Science, 1999, 73, 2235.	1.3	2
146	Syndiospecific polymerization of styrene using fluorinated indenyltitanium complexes. , 1999, 37, 2481.		1
147	Controlled radical polymerization catalyzed by copper(I)â€“sparteine complexes. , 1999, 37, 4191.		1
148	Role of lattice oxygen during CO2 reforming of methane over NiO/MgO solid solutions. Catalysis Letters, 1998, 51, 183-185.	1.4	41
149	Macroporous chitin affinity membranes for lysozyme separation. , 1998, 58, 117-117.		24
150	A novel route to poly(2-hydroxyethyl methacrylate) and its amphiphilic block copolymers. Journal of Polymer Science Part A, 1998, 36, 1865-1872.	2.5	10
151	The equilibrium fraction of bridging chains and the swelling behavior of ABA triblock copolymer mesophases. Macromolecular Theory and Simulations, 1998, 7, 333-348.	0.6	14
152	Miscibility and esterification in the poly(styrene-co-maleic anhydride)/phenoxy blends. Journal of Applied Polymer Science, 1998, 67, 913-919.	1.3	8
153	Coating metal oxide particles via the combustion of deposited polymer precursors. Journal of Applied Polymer Science, 1998, 67, 1891-1903.	1.3	12
154	Room temperature-initiated and self-heating copolymerization of acrylonitrile with vinyl acetate. Journal of Applied Polymer Science, 1998, 68, 999-1011.	1.3	9
155	Molten ring-open copolymerization ofL-lactide and cyclic trimethylene carbonate. Journal of Applied Polymer Science, 1998, 69, 1429-1434.	1.3	71
156	Polyurethane toughened polylactide. Polymer Bulletin, 1998, 40, 485-490.	1.7	63
157	Graft Copolymers by Combined Anionic and Cationic Polymerizations Based on the Homopolymerization of a Bifunctional Monomer. Macromolecules, 1998, 31, 746-752.	2.2	31
158	Surface Equation of State for Insoluble Surfactant Monolayers at the Air/Water Interface. Journal of Physical Chemistry B, 1998, 102, 981-989.	1.2	49
159	Living Anionic Polymerization of 1-(Alkoxy)ethyl Methacrylates and the Preparation of Well-Defined Poly(methacrylic acid). Macromolecules, 1998, 31, 7575-7580.	2.2	31
160	Living Anionic Copolymerization of 1-(Alkoxy)ethyl Methacrylates with Polar and/or Nonpolar Monomers and the Preparation of Amphiphilic Block Copolymers Containing Poly(methacrylic acid) Hydrophilic Segments at Higher Temperatures Than Usually Employed. Macromolecules, 1998, 31, 9127-9133.	2.2	28
161	Graft, Blockâ^'Graft and Star-Shaped Copolymers by an in Situ Coupling Reaction. Macromolecules, 1998, 31, 4753-4759.	2.2	28
162	Aggregation of Hydrocarbons in Dilute Aqueous Solutions. Journal of Physical Chemistry B, 1998, 102, 1005-1012.	1.2	24

#	Article	IF	Citations
163	Blockâ^'Graft and Star-Shaped Copolymers by Continuous Transformation from Anionic to Cationic Polymerization. Macromolecules, 1998, 31, 2977-2982.	2.2	15
164	Combination of CO2Reforming and Partial Oxidation of Methane over NiO/MgO Solid Solution Catalysts. Industrial & Engineering Chemistry Research, 1998, 37, 1744-1747.	1.8	97
165	On the origin of the thermodynamic stability of lyotropic lamellar liquid crystals. Journal of Chemical Physics, 1998, 109, 6995-7000.	1.2	5
166	ON THE PHENOMENOLOGICAL THERMODYNAMICS OF HYDROPHOBIC BONDING. Journal of Dispersion Science and Technology, 1998, 19, 329-338.	1.3	6
167	Statistical thermodynamics of end-attached chain monolayers. Journal of Chemical Physics, 1997, 106, 280-288.	1.2	10
168	Steric interactions between two grafted polymer brushes. Journal of Chemical Physics, 1997, 107, 932-942.	1.2	17
169	Monomer [1-(Isobutoxy)ethyl Methacrylate] That Can Undergo Anionic Polymerization and Can Also Be an Initiator for the Cationic Polymerization of Vinyl Ethers. Preparation of Comblike Polymers. Macromolecules, 1997, 30, 6852-6855.	2.2	9
170	A Predictive Equation for the Tracer Diffusion of Various Solutes in Gases, Supercritical Fluids, and Liquids. Industrial & Engineering Chemistry Research, 1997, 36, 5488-5500.	1.8	32
171	Self-Diffusion in Gases and Liquids. Industrial & Engineering Chemistry Research, 1997, 36, 3927-3936.	1.8	75
172	Predicting the Diffusion Coefficients in Supercritical Fluids. Industrial & Engineering Chemistry Research, 1997, 36, 888-895.	1.8	41
173	The effect of precursor and preparation conditions of MgO on the CO2 reforming of CH4 over NiO/MgO catalysts. Applied Catalysis A: General, 1997, 154, 185-205.	2.2	90
174	Dendritic polymers from vinyl ether. Polymer Bulletin, 1997, 39, 399-406.	1.7	20
175	The concentrated emulsion approach to toughened polymer composites: A review. Polymer Composites, 1997, 18, 320-331.	2.3	12
176	Preparation of functional polymers by living anionic polymerization: Polymerization of allyl methacrylate. Journal of Polymer Science Part A, 1997, 35, 2901-2906.	2.5	28
177	A Simple Surface Equation of State for the Phase Transition in Phospholipid Monolayers. Langmuir, 1996, 12, 2308-2315.	1.6	18
178	Effect of Surfactant and Salt Concentrations on the Drainage and Collapse of Foams Involving Ionic Surfactants. Langmuir, 1996, 12, 4134-4144.	1.6	38
179	Phase Transition from a Liquid Expanded to a Liquid Condensed Surfactant Monolayer. The Journal of Physical Chemistry, 1996, 100, 3108-3114.	2.9	29
180	Microemulsions, Macroemulsions, and the Bancroft Rule. Langmuir, 1996, 12, 6351-6353.	1.6	78

#	Article	IF	Citations
181	Conductive coating films based on low density In2O3 powders and polymer latexes. Journal of Applied Polymer Science, 1996, 61, 901-909.	1.3	3
182	Preparation and characteristics of polymer-based large adsorbent particles. Journal of Applied Polymer Science, 1996, 61, 1949-1956.	1.3	16
183	Amphiphilic particles with hydrophilic core/hydrophobic shell prepared via inverted emulsions. Journal of Applied Polymer Science, 1996, 61, 2129-2136.	1.3	11
184	Self-compatibilization of poly(butyl methacrylate)/acrylonitrile-co-styrene blends via concentrated emulsion polymerization. Journal of Applied Polymer Science, 1996, 61, 2285-2296.	1.3	4
185	Poly(acrylic acid)-Poly(vinyl alcohol) semi- and interpenetrating polymer network pervaporation membranes. Journal of Applied Polymer Science, 1996, 62, 973-987.	1.3	38
186	Colloidal scale blend of rigid and flexible polyamides. Polymer Bulletin, 1996, 37, 671-677.	1.7	3
187	Room temperature initiated and self-heating polymerization via concentrated emulsions: application to acrylonitrile based polymers. Polymer Bulletin, 1996, 37, 43-50.	1.7	8
188	Semiinterpenetrating polymer network latexes via concentrated emulsion polymerization. Journal of Applied Polymer Science, 1995, 55, 961-970.	1.3	10
189	Coating water-swellable polymer latexes by interfacial polymerization. Journal of Applied Polymer Science, 1995, 55, 1081-1092.	1.3	6
190	Carbon dioxide reforming of methane over nickel/alkaline earth metal oxide catalysts. Applied Catalysis A: General, 1995, 133, 149-161.	2.2	316
191	Nonlinear stability and rupture of ultrathin free films. Physics of Fluids, 1995, 7, 1832-1840.	1.6	27
192	Ostwald ripening: A stochastic approach. Journal of Chemical Physics, 1995, 103, 7120-7135.	1.2	41
193	Diffusion of atoms and dimers on metal surfaces. Journal of Chemical Physics, 1994, 100, 7696-7699.	1.2	11
194	Resonant diffusion of molecules in solids. Journal of Chemical Physics, 1994, 100, 3808-3812.	1.2	19
195	Brownian dynamics in amorphous solids. Journal of Chemical Physics, 1994, 101, 7844-7849.	1.2	10
196	Toughened polystyrene composites by the concentrated emulsion pathway. Journal of Applied Polymer Science, 1994, 52, 1949-1958.	1.3	10
197	Conducting rubberlike copolymerâ€“carbon fiber composites. Journal of Applied Polymer Science, 1994, 53, 923-932.	1.3	2
198	Rubber toughened styrene/methyl methacrylate/butyl methacrylate composites by the concentrated emulsion pathway. Journal of Applied Polymer Science, 1994, 54, 561-568.	1.3	8

#	Article	IF	Citations
199	Production of lignin peroxidase byPhanerochaete chrysosporium immobilized on porous poly(styrene-divinylbenzene) carrier and its application to the degrading of 2-chlorophenol. Biotechnology and Bioengineering, 1994, 44, 79-86.	1.7	44
200	Oxidative methylation of ?-, ?- and ?-picolines with methane vinylpyridines and ethylpyridines over mono- and bialkali promoted magnesia catalysts. Catalysis Letters, 1994, 29, 217-224.	1.4	5
201	Maximum and time stable aromatic yield in the reforming of alkylcyclopentanes over Pt/? zeolites. Catalysis Letters, 1994, 25, 351-359.	1.4	12
202	Stochastic dynamics of a subsystem interacting with a solid body with application to diffusive processes in solids. Journal of Chemical Physics, 1994, 100, 1450-1455.	1.2	40
203	Preparation of high molecular weight monodisperse polystyrene latexes by concentrated emulsion polymerization. Journal of Applied Polymer Science, 1993, 48, 1279-1288.	1.3	19
204	Lowâ€temperature YBa2Cu4O8â€toâ€YBa2Cu3O7decomposition process for enhanced intraâ€and intergrain critical current densities in Yâ€Baâ€Cuâ€O/Ag composites. Applied Physics Letters, 1993, 63, 687-689.	1.5	3
205	CATALYTIC CRACKING OF GAS OIL: EFFECT OF THE AMOUNT OF ZEOLITE IN COMPOSITE CATALYSTS. Chemical Engineering Communications, 1992, 116, 171-191.	1.5	4
206	Surfactant modification of the surface energetics of hydrophobic polymers and protein adsorption. Journal of Adhesion Science and Technology, 1992, 6, 611-623.	1.4	3
207	Generation of porous polymer surfaces by solventâ€“nonsolvent treatment. Journal of Applied Polymer Science, 1992, 45, 377-386.	1.3	9
208	Modeling of enzyme-potentiometric sensors involving acid- or base-forming reactions. Biotechnology and Bioengineering, 1991, 37, 160-176.	1.7	8
209	New method for the preparation of thick conducting polymer composites. Journal of Applied Polymer Science, 1991, 42, 925-934.	1.3	75
210	Effect of a surface active pyrrole on the conductivity of polypyrrole composites. Journal of Applied Polymer Science, 1991, 43, 1209-1218.	1.3	18
211	OPTIMUM DILUTION PROFILES OF COMPOSITE ZEOLITES IN PACKED BEDS. Chemical Engineering Communications, 1991, 106, 119-138.	1.5	2
212	Reaction pathways for the formation of the YBa2Cu3O7âˆ'x compound. Journal of Materials Research, 1989, 4, 267-272.	1.2	57
213	Preparation of latex carriers for controlled release by concentrated emulsion polymerization. Journal of Applied Polymer Science, 1989, 38, 441-452.	1.3	2
214	Selective permeation through hydrophobicâ€“hydrophilic membranes. Journal of Applied Polymer Science, 1989, 38, 453-461.	1.3	43
215	Copolymerization of styrene and methacrylic acid in concentrated emulsions. Journal of Polymer Science Part A, 1989, 27, 4375-4388.	2.5	10
216	Preparation of polyacrylamide latexes by concentrated emulsion polymerization. Die Makromolekulare Chemie Rapid Communications, 1988, 9, 285-290.	1.1	26

#	Article	IF	Citations
217	Polymerization in gel-like emulsions. Journal of Applied Polymer Science, 1988, 36, 907-923.	1.3	58
218	Hydrophilic-hydrophobic polymer composites. Journal of Polymer Science, Polymer Letters Edition, 1988, 26, 529-536.	0.4	57
219	Separation of a Multicomponent Mixture of Proteins by Potential Barrier Chromatography (PBC). Separation Science and Technology, 1986, 21, 111-138.	1.3	4
220	OPTIMUM DESIGN OF ZEOLITE/SILICA-ALUMINA CATALYSTS. Chemical Engineering Communications, 1986, 46, 43-64.	1.5	6
221	The Effect of Nitrogen Content on the Oxidation of Fuel Bound Nitrogen in a Transition Metal Oxide Catalytic Combustor. Combustion Science and Technology, 1984, 41, 315-325.	1.2	6
222	Separation of Immunoglobulins by Potential Barrier Chromatography. Separation Science and Technology, 1984, 19, 531-543.	1.3	5
223	Catalytic Combustion. Catalysis Reviews - Science and Engineering, 1984, 26, 1-58.	5.7	392
224	Catalyst Sintering and Reactor Design. Catalysis Reviews - Science and Engineering, 1983, 25, 475-550.	5.7	26
225	ADSORPTION ISOTHERMS AND CATALYST SELECTIVITY FOR A UNIFORM SURFACE: THE ROLE OF MULTIPLE LANDING AREAS. Chemical Engineering Communications, 1982, 14, 59-89.	1.5	3
226	Immobilized enzymes: Electrokinetic effects on reaction rates in a porous medium. Biotechnology and Bioengineering, 1982, 24, 2357-2382.	1.7	13
227	THE PHYSICAL MEANING OF THE EXPONENTS IN EXPRESSIONS FOR THE HEAT OR MASS TRANSFER COEFFICIENTS. Chemical Engineering Communications, 1981, 10, 77-80.	1.5	4
228	Oxidation of Fuel Bound Nitrogen in a Transitional Metal Oxide Catalytic Combustor. Combustion Science and Technology, 1981, 27, 45-54.	1.2	11
229	THERMODYNAMICS OF MICROEMULSIFICATION WITH IONIC SURFACTANTSâˆ—. Journal of Dispersion Science and Technology, 1981, 2, 1-25.	1.3	18
230	Adsorption and desorption of particles and their chromatographic separation. AICHE Journal, 1976, 22, 276-283.	1.8	297
231	Effect of London forces upon the rate of deposition of Brownian particles. AICHE Journal, 1974, 20, 1178-1187.	1.8	140
232	Unsteady mass transfer between bubbles and nonâ€newtonian liquids (Power law model) with chemical reactions. Canadian Journal of Chemical Engineering, 1972, 50, 300-303.	0.9	3
233	Structure of a nanodrop of a binary mixture on a solid surface. Molecular Physics, 0, , .	0.8	0
234	Kinetic Theory of Nucleation. , 0, , .		18