G Ali Mansoori

List of Publications by Year
in descending order

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84 papers	4,073 citations	159585 30 h-index	123424 61 g-index
86 all docs	86 docs citations	86 times ranked	3953 citing authors

#	Article	IF	Citations
1	Utilizing the folate receptor for active targeting of cancer nanotherapeutics. Nano Reviews, 2012, 3, 18496.	3.7	392
2	Asphaltene deposition: a survey of field experiences and research approaches. Journal of Petroleum Science and Engineering, 1988, 1, 229-239.	4.2	327
3	Characterization of Alkanes and Paraffin Waxes for Application as Phase Change Energy Storage Medium. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1994, 16, 117-128.	0.5	325
4	Modeling of asphaltene and other heavy organic depositions. Journal of Petroleum Science and Engineering, 1997, 17, 101-111.	4.2	279
5	Aggregation and Deposition of Heavy Organics in Petroleum Crudes. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1988, 10, 109-125.	0.5	157
6	Statistical thermodynamics of mixtures. A new version for the theory of conformal solution. Journal of the Chemical Society, Faraday Transactions 2, 1972, 68, 320.	1.1	133
7	A Comparative Study of Two Folate-Conjugated Gold Nanoparticles for Cancer Nanotechnology Applications. Cancers, 2010, 2, 1911-1928.	3.7	133
8	Principles of Nanotechnology. , 2005, , .		123
9	Nanotechnology Solutions for Alzheimer's Disease: Advances in Research Tools, Diagnostic Methods and Therapeutic Agents. Journal of Alzheimer's Disease, 2008, 13, 199-223.	2.6	114
10	Surface tension prediction for pure fluids. AICHE Journal, 1996, 42, 1425-1433.	3.6	109
11	A simple expression for radial distribution functions of pure fluids and mixtures. Journal of Chemical Physics, 1995, 103, 4672-4677.	3.0	101
12	Measurement of Activity of Water in Aqueous Poly(ethylene glycol) Solutions (Effect of Excess) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.9	98
13	Viscometric Determination of the Onset of Asphaltene Flocculation: A Novel Method. SPE Production and Operations, 1995, 10, 115-118.	0.6	92
14	Densities of Poly(ethylene glycol) + Water Mixtures in the 298.15â^'328.15 K Temperature Range. Journal of Chemical & Engineering Data, 1998, 43, 719-721.	1.9	90
15	Molecular dynamics studies of interaction between asphaltenes and solvents. Journal of Petroleum Science and Engineering, 2017, 156, 118-124.	4.2	88
16	A new insight into asphaltenes aggregation onset at molecular level in crude oil (an MD simulation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.2	76
17	Nanotechnology in cancer prevention, detection and treatment: bright future lies ahead. World Review of Science, Technology and Sustainable Development, 2007, 4, 226.	0.4	75
18	A simple relation to predict or to correlate the excess functions of multicomponent mixtures. Fluid Phase Equilibria, 1991, 62, 173-189.	2.5	69

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19	A unified perspective on the phase behaviour of petroleum fluids. International Journal of Oil, Gas and Coal Technology, 2009, 2, 141.	0.2	63
20	ENVIRONMENTAL APPLICATION OF NANOTECHNOLOGY. Annual Review of Nano Research, 2008, , 439-493.	0.2	62
21	Variational Approach to the Equilibrium Thermodynamic Properties of Simple Fluid Mixtures. III. Journal of Chemical Physics, 1970, 53, 1931-1936.	3.0	57
22	Surface-tension prediction for liquid mixtures. AICHE Journal, 1998, 44, 2324-2332.	3.6	54
23	Structural and optical characterization of folate-conjugated gold-nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1272-1280.	2.7	45
24	Asphaltene aggregation due to waterflooding (A molecular dynamics study). Journal of Petroleum Science and Engineering, 2018, 170, 177-183.	4.2	45
25	An accurate expression for radial distribution function of the Lennard-Jones fluid. Chemical Physics, 2005, 310, 11-15.	1.9	44
26	Self-Assembly of Diamondoid Molecules and Derivatives (MD Simulations and DFT Calculations). International Journal of Molecular Sciences, 2010, 11, 288-303.	4.1	41
27	Polydispersity of heavy organics in crude oils and their role in oil well fouling. Journal of Petroleum Science and Engineering, 2007, 58, 375-390.	4.2	40
28	Density expansion (DEX) mixing rules: Thermodynamic modeling of supercritical extraction. Journal of Chemical Physics, 1985, 82, 406-413.	3.0	36
29	Perturbation and Variational Approaches to Equilibrium Thermodynamics of Gases, Liquids, and Phase Transitions. Industrial and Engineering Chemistry, 1970, 62, 12-29.	0.5	35
30	PREDICTION OF THE PHASE BEHAVIOR OF ASPHALTENE MICELLE / AROMATIC HYDROCARBON SYSTEMS. Petroleum Science and Technology, 1998, 16, 377-394.	1.5	34
31	Heavy-organic particle deposition from petroleum fluid flow in oil wells and pipelines. Petroleum Science, 2010, 7, 502-508.	4.9	32
32	Opto-electronic properties of adamantane and hydrogen-terminated sila- and germa-adamantane: A comparative study. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1151-1156.	2.7	30
33	A novel approach to predict drugs solubility in supercritical solvents for RESS process using various cubic EoS-mixing rule. Journal of Molecular Liquids, 2018, 261, 174-188.	4.9	30
34	Diamondoids: occurrence in fossil fuels, applications in petroleum exploration and fouling in petroleum production. A review paper. International Journal of Oil, Gas and Coal Technology, 2012, 5, 316.	0.2	28
35	Variational Approach to the Prediction of Excess Thermodynamic Properties of Binary Liquid Mixtures. IV. Journal of Chemical Physics, 1972, 56, 5335-5339.	3.0	27
36	Asphaltene and Other Heavy-Organic Particle Deposition During Transfer and Production Operations. , 1995, , .		27

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37	Fractal nature of asphaltene aggregation. Journal of Petroleum Science and Engineering, 1993, 9, 17-27.	4.2	26
38	BEHAVIOR OF THE CONFINED HARD-SPHERE FLUID WITHIN NANOSLITS: A FUNDAMENTAL-MEASURE DENSITY-FUNCTIONAL THEORY STUDY. International Journal of Nanoscience, 2008, 07, 245-253.	0.7	26
39	Buried Gas Transmission Pipelines: Temperature Profile Prediction through the Corresponding States Principle. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1988, 10, 247-252.	0.5	25
40	Diamondoids as Molecular Building Blocks for Nanotechnology. , 2007, , 44-71.		23
41	QUANTUM CONDUCTANCE AND ELECTRONIC PROPERTIES OF LOWER DIAMONDOID MOLECULES AND DERIVATIVES. International Journal of Nanoscience, 2008, 07, 63-72.	0.7	20
42	Inequalities for the Helmholtz Free Energy. Journal of Chemical Physics, 1970, 53, 1618-1619.	3.0	18
43	Solubility modeling of solids in supercritical fluids using the Kirkwood-Buff fluctuation integral with the hard-sphere expansion (RISE) theory. Journal of Supercritical Fluids, 1993, 6, 173-180.	3.2	17
44	PREDICTION OF MOLAR VOLUMES, VAPOR PRESSURES AND SUPERCRITICAL SOLUBILITIES OF ALKANES BY EQUATIONS OF STATE. Chemical Engineering Communications, 1999, 173, 23-42.	2.6	17
45	An equation of state for property prediction of alcoholâ€“hydrocarbon and waterâ€“hydrocarbon systems. Journal of Petroleum Science and Engineering, 2001, 32, 103-114.	4.2	17
46	Hard-sphere mixture excess free energy at infinite size ratio. Journal of Chemical Physics, 1999, 110, 3463-3465.	3.0	16
47	Development of dynamic energy storage hub concept: A comprehensive literature review of multi storage systems. Journal of Energy Storage, 2022, 48, 103972.	8.1	16
48	Bioseparation Using Supercritical Fluid Extraction/Retrograde Condensation. Nature Biotechnology, 1988, 6, 393-396.	17.5	15
49	A molecular dynamics study on the role of attractive and repulsive forces in internal energy, internal pressure and structure of dense fluids. Chemical Physics, 2007, 331, 332-338.	1.9	15
50	Mixing Rules for Cubic Equations of State. ACS Symposium Series, 1986, , 314-330.	0.5	14
51	Relations Among Concentration Fluctuation Integrals in Mixtures (Theory and Experiments). Zeitschrift Fur Physikalische Chemie, 1989, 162, 27-45.	2.8	14
52	The concentrations of electrolytes in charged cylindrical pores: The hydrostatic hypernetted chain/mean spherical approximation. Journal of Chemical Physics, 1996, 104, 3832-3840.	3.0	14
53	A New Theoretical Approach to the Hydrogen-Bonded Fluids Based on the Conformal Solution Concept. Journal of Physical Chemistry B, 2001, 105, 2820-2825.	2.6	14
54	First-principles simulation of the interaction between adamantane and an atomic-force-microscope tip. Physical Review B, 2007, 75, .	3.2	14

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55	Behavior of confined fluids in nanoslit pores: the normal pressure tensor. Microfluidics and Nanofluidics, 2010, 8, 97-104.	2.2	14
56	An Introduction to Nanoscience and Nanotechnology. Soil Biology, 2017, , 3-20.	0.8	14
57	The role of mixing rules and three-body forces in the phase behavior of mixtures: simultaneous VLE and VLLE calculations. Fluid Phase Equilibria, 1988, 41, 43-57.	2.5	13
58	A fluctuation solution theory of activity coefficients: phase equilibria in associating molecular solutions. The Journal of Physical Chemistry, 1990, 94, 3148-3152.	2.9	13
59	Modeling and Prevention of Asphaltene and Other Heavy Organic Deposition in Oil Wells. , 1994, , .		13
60	Supercritical Fluid Extraction for Remediation of Contaminated Soil. ACS Symposium Series, 1997, , 280-298.	0.5	13
61	Asphaltene deposition: an economic challenge in heavy petroleum crude utilization and processing. OPEC Review, 1988, 12, 103-113.	0.2	12
62	A singleâ€theory approach to the prediction of solidâ€“liquid and liquidâ€“vapor phase transitions. Journal of Chemical Physics, 1996, 105, 9580-9587.	3.0	12
63	A Generalized Chemical Associating Theory of Mixtures. Zeitschrift Fur Physikalische Chemie, 1998, 205, 211-240.	2.8	11
64	Improvement on Lennard-Jonesâ€“Devonshire theory for predicting liquidâ€“solid phase transition. Journal of Chemical Physics, 1999, 111, 10236-10241.	3.0	11
65	Mean density approximation and hard sphere expansion theory: A review. Fluid Phase Equilibria, 1987, 37, 1-27.	2.5	10
66	Structure and property prediction of sub- and supercritical water. Fluid Phase Equilibria, 1998, 150-151, 459-468.	2.5	9
67	Bioseparations: Design and Engineering of Partitioning Systems. Nature Biotechnology, 1989, 7, 686-688.	17.5	8
68	Model Calculations of Thermodynamic Mixture Properties from Direct Correlation Integrals. Zeitschrift Fur Physikalische Chemie, 1990, 166, 63-69.	2.8	7
69	Chapter 8 Asphaltene and other Heavy Organic Depositions. Developments in Petroleum Science, 1994, 40, 179-205.	0.2	7
70	Application of Integral Equation Joined with the Chain Association Theory to Study Molecular Association in Sub- and Supercritical Water. Journal of Physical Chemistry B, 2001, 105, 9834-9839.	2.6	5
71	Classical thermodynamic basis of activity coefficients: Predictive and consistency rules for binary and ternary mixtures based on the relation between excess Gibbs free energies of (c)- and (c â€") Tj ETQq1 1 0.784314 rgBT /Overloc	2.5	4
72	Variational theory of mixtures. Fluid Phase Equilibria, 1987, 37, 255-285.	2.5	4

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73	Reservoir organic geochemistry: Processes and applications. Journal of Petroleum Science and Engineering, 2007, 58, 341-343.	4.2	4
74	Large-Scale Production/Biosynthesis of Biogenic Nanoparticles. , 2020, , 67-83.		4
75	Lateral Pressure Tensor of Confined Fluids in Nanoslit Pores. Micro and Nanosystems, 2011, 3, 311-318.	0.6	4
76	Statistical mechanical test of mhemhs model of the interaction third virial coefficients. Fluid Phase Equilibria, 1988, 43, 205-212.	2.5	3
77	On the Variational Properties of Scott and van der Waals ``Oneâ€Fluid'' Theories of Mixtures. Journal of Chemical Physics, 1972, 57, 198-199.	3.0	2
78	Integral equation study of the residual chemical potential in infiniteâ€dilution supercritical solutions. Canadian Journal of Chemical Engineering, 2000, 78, 1157-1167.	1.7	2
79	Superconductors: Past, Present, and Future. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1988, 10, 159-172.	0.5	1
80	10 Mixtures of dissimilar molecules. Experimental Thermodynamics, 2000, 5, 359-380.	0.1	1
81	Phase Transition and Self-assembly of Lower Diamondoids and Derivatives.. Materials Research Society Symposia Proceedings, 2011, 1282, 17.	0.1	1
82	Multiobjective operational optimization of energy hubs: Developing a novel dynamic energy storage hub concept using ammonia as storage. International Journal of Energy Research, 0, , .	4.5	1
83	Diamondoids in nanotechnology: First-principles simulation of electronic structure and nonlinear optical response in adamantane. , 2007, , .		0
84	Chapter 4 | Petroleum Waxes. , 2019, , 79-113.		0