

Dandina N Rao

List of Publications by Year in descending order

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31
papers

1,176
citations

623734

14
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	A new technique of vanishing interfacial tension for miscibility determination. Fluid Phase Equilibria, 1997, 139, 311-324.	2.5	232
2	Experimental investigation of miscible and immiscible Water-Alternating-Gas (WAG) process performance. Journal of Petroleum Science and Engineering, 2005, 48, 1-20.	4.2	192
3	Application of the new vanishing interfacial tension technique to evaluate miscibility conditions for the Terra Nova Offshore Project. Journal of Petroleum Science and Engineering, 2002, 35, 247-262.	4.2	115
4	Determination of gas-oil miscibility conditions by interfacial tension measurements. Journal of Colloid and Interface Science, 2003, 262, 474-482.	9.4	106
5	Compositional effects of fluids on spreading, adhesion and wettability in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 335-342.	4.7	90
6	Beneficial effects of wettability altering surfactants in oil-wet fractured reservoirs. Journal of Petroleum Science and Engineering, 2006, 52, 261-274.	4.2	67
7	A new mechanistic Parachor model to predict dynamic interfacial tension and miscibility in multicomponent hydrocarbon systems. Journal of Colloid and Interface Science, 2006, 299, 321-331.	9.4	56
8	Multiphase flow and wettability effects of surfactants in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 313-322.	4.7	52
9	Comparative Evaluation of a New Gas/Oil Miscibility-Determination Technique. Journal of Canadian Petroleum Technology, 2011, 50, 71-81.	2.3	37
10	Solubility, miscibility and their relation to interfacial tension in ternary liquid systems. Fluid Phase Equilibria, 2006, 249, 82-91.	2.5	31
11	Interfacial Behaviour of Complex Hydrocarbon Fluids at Elevated Pressures and Temperatures. Canadian Journal of Chemical Engineering, 2006, 84, 22-32.	1.7	31
12	Measurement of Surfactant-Induced Interfacial Interactions at Reservoir Conditions. SPE Reservoir Evaluation and Engineering, 2008, 11, 83-94.	1.8	29
13	FLUID-FLUID AND SOLID-FLUID INTERFACIAL INTERACTIONS IN PETROLEUM RESERVOIRS. Petroleum Science and Technology, 2001, 19, 157-188.	1.5	19
14	Experimental Determination of Minimum Miscibility Pressure (MMP) by Gas/Oil IFT Measurements for a Gas Injection EOR Project. , 2010, , .		19
15	Miscibility Determination from Gas-Oil Interfacial Tension and P-R Equation of State. Canadian Journal of Chemical Engineering, 2007, 85, 302-312.	1.7	14
16	Compositional Dependence of Wetting and Contact Angles in Solid-Liquid-Liquid Systems under Realistic Environments. Canadian Journal of Chemical Engineering, 2008, 84, 44-51.	1.7	12
17	Application of the parachor model to the prediction of miscibility in multi-component hydrocarbon systems. Journal of Physics Condensed Matter, 2004, 16, S2177-S2186.	1.8	10
18	Line-Tension-Based Modification of Young's Equation for Rock/Oil/Brine Systems. SPE Reservoir Evaluation and Engineering, 2009, 12, 702-712.	1.8	10

#	ARTICLE	IF	CITATIONS
19	Application of the dual-drop dual-crystal contact angle technique to characterize heavy oil reservoir wettability. Journal of Adhesion Science and Technology, 2002, 16, 581-598.	2.6	9
20	Application of a New Mechanistic Parachor Model to Predict Dynamic Gas-Oil Miscibility in Reservoir Crude Oil-Solvent Systems. , 2004, , .		8
21	Gas and Downhole Water Sink-Assisted Gravity Drainage GDWS-AGD EOR Process: Field-Scale Evaluation and Recovery Optimization. , 2018, , .		7
22	The multiple roles of interfacial tension in fluid phase equilibria and fluidâ€“solid interactions. Journal of Adhesion Science and Technology, 2006, 20, 125-142.	2.6	6
23	Authors' response to the comments on â€œA new mechanistic Parachor model to predict dynamic interfacial tension and miscibility in multicomponent hydrocarbon systemsâ€“by F.M. Orr and K. Jessen. Journal of Colloid and Interface Science, 2007, 307, 559-562.	9.4	6
24	Development of a model for thin-film stability and spreading in solidâ€“liquidâ€“liquid systems. Journal of Adhesion Science and Technology, 2007, 21, 243-265.	2.6	4
25	Optimization of Gas Assisted Gravity Drainage (GAGD) Process in a Heterogeneous Sandstone Reservoir: Field-Scale Study. , 2015, , .		3
26	Potential application of the CO ₂ -assisted gravity drainage process in a mature oil field: insights from reservoir-scale EOR evaluation. International Journal of Oil, Gas and Coal Technology, 2020, 25, 19.	0.2	3
27	A Single-Well Gas-Assisted Gravity Drainage Enhanced Oil Recovery Process for U.S. Deepwater Gulf of Mexico Operations. Energies, 2021, 14, 1743.	3.1	3
28	Solubility, Miscibility and their Relation to Interfacial Tension for Application in Reservoir Gas-Oil Systems. , 2004, , .		2
29	Estimation of Near-Miscibility Conditions Based on Gas-Oil Interfacial Tension Calculations. , 2015, , .		2
30	Comments on â€œAn analysis of the vanishing interfacial tension technique for determination of minimum miscibility pressureâ€“by F.M. Orr and K. Jessen [Fluid Phase Equilib. 255 (2007) 99â€“109]. Fluid Phase Equilibria, 2007, 259, 235-237.	2.5	1
31	Gas-Assisted Gravity Drainage GAGD Process for Enhanced Oil Recovery: A Comprehensive Review and Field Applications. , 2017, , .		0