Ian R Collins

List of Publications by Year
in descending order

41 papers	1,327 citations	331670 21 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	1532 citing authors

#	Article	IF	Citations
1	Nucleation, growth and inhibition of barium sulfate-controlled modification with organic and inorganic additives. Faraday Discussions, 1993, 95, 281.	3.2	128
2	Ion adsorption-induced wetting transition in oil-water-mineral systems. Scientific Reports, 2015, 5, 10519.	3.3	119
3	Top-site adsorption for potassium on Ni(111). Physical Review Letters, 1992, 68, 2786-2789.	7.8	101
4	One-pot synthesis of responsive sulfobetaine nanoparticles by RAFT polymerisation: the effect of branching on the UCST cloud point. Polymer Chemistry, 2014, 5, 1023-1030.	3.9	88
5	Functional Degradable Polymers by Xanthate-Mediated Polymerization. Macromolecules, 2014, 47, 2847-2852.	4.8	76
6	Synthesis and characterisation of colloidal metal and semiconductor particles prepared in microemulsions. Faraday Discussions, 1993, 95, 219.	3.2	69
7	Aminopyrazine Inhibitors Binding to an Unusual Inactive Conformation of the Mitotic Kinase Nek2: SAR and Structural Characterization. Journal of Medicinal Chemistry, 2010, 53, 7682-7698.	6.4	63
8	How Naturally Adsorbed Material on Minerals Affects Low Salinity Enhanced Oil Recovery. Energy & Fuels, 2014, 28, 4849-4858.	5.1	60
9	Electrical properties of the goldâ€"aqueous solution interface. Journal of Colloid and Interface Science, 1992, 152, 197-204.	9.4	53
10	Identification and characterisation of 2-aminopyridine inhibitors of checkpoint kinase 2. Bioorganic and Medicinal Chemistry, 2010, 18, 707-718.	3.0	50
11	Interaction of Poly(.alpha.,.beta.-aspartate) with Octadecylamine Monolayers: Adsorption Behavior and Effects on CaCO3 Crystallization. Langmuir, 1995, 11, 3130-3136.	3.5	40
12	Insights From Ion Adsorption and Contact-Angle Alteration at Mineral Surfaces for Low-Salinity Waterflooding. SPE Journal, 2016, 21, 1204-1213.	3.1	39
13	Non-aqueous thermal decomposition route to colloidal inorganic oxides. Journal of Materials Chemistry, 1992, 2, 1277.	6.7	35
14	Surface Electrical Properties of Barium Sulfate Modified by Adsorption of Poly Î±, Î² Aspartic Acid. Journal of Colloid and Interface Science, 1999, 212, 535-544.	9.4	34
15	Occurrence, Prediction, and Prevention of Zinc Sulfide Scale Within Gulf Coast and North Sea High-Temperature and High-Salinity Fields. SPE Production and Operations, 2003, 18, 200-209.	0.6	30
16	Identification of Small-Molecule Inhibitors of Protein Kinase B (PKB/AKT) in an AlphaScreenâ„¢ High-Throughput Screen. Journal of Biomolecular Screening, 2006, 11, 822-827.	2.6	30
17	Identification by High-Throughput Screening of Viridin Analogs as Biochemical and Cell-Based Inhibitors of the Cell Cycleâ€"Regulated Nek2 Kinase. Journal of Biomolecular Screening, 2010, 15, 918-927.	2.6	30
18	Electrolyte-Induced Aggregation of Gold Particles on Solid Surfaces. Journal of Colloid and Interface Science, 1994, 163, 347-354.	9.4	28

#	Article	IF	Citations
19	Low Sulfate Seawater Injection for Barium Sulfate Scale Control: A Life-of-Field Solution to a Complex Challenge. SPE Production and Operations, 2008, 23, 192-209.	0.6	24
20	Field Application of a Scale Inhibitor Squeeze Enhancing Additive. SPE Production and Operations, 1999, 14, 21-29.	0.6	22
21	Adsorption of Aerosol-OT at the calcite/water interface â€“ Comparison of the sodium and calcium salts. Journal of Colloid and Interface Science, 2014, 418, 140-146.	9.4	22
22	FT-IR and Raman Spectroscopic Characterization of the Major Oilfield Sulfate Scale Forming Minerals. Applied Spectroscopy, 2001, 55, 1155-1160.	2.2	20
23	Rapid fluid-rock interaction in oilfield reservoirs. Geology, 2007, 35, 1143.	4.4	17
24	Water/oil interfacial tension reduction â€“ an interfacial entropy driven process. Physical Chemistry Chemical Physics, 2021, 23, 25075-25085.	2.8	17
25	Salinity-dependent contact angle alteration in oil/brine/silicate systems: The effect of temperature. Journal of Petroleum Science and Engineering, 2018, 165, 1040-1048.	4.2	16
26	Advantages of a New Chemical Delivery System for Fractured and Gravel- Packed Wells. SPE Production and Operations, 1999, 14, 210-218.	0.6	14
27	THE PREPARATION AND STABILITY OF COLLOIDAL METAL DISPERSIONS PREPARED BY A TWO-PHASE NON-AQUEOUS ROUTE. Journal of Dispersion Science and Technology, 1991, 12, 403-415.	2.4	12
28	On the Viscosity of Concentrated Aggregated Suspensions. Journal of Colloid and Interface Science, 1996, 178, 361-363.	9.4	11
29	Scale Control Within the North Sea Chalk/Limestone Reservoirsâ€”The Challenge of Understanding and Optimizing Chemical-Placement Methods and Retention Mechanisms: Laboratory to Field. SPE Production and Operations, 2005, 20, 262-273.	0.6	11
30	Time-lapse imaging of particle invasion and deposition in porous media using in situ X-ray radiography. Journal of Petroleum Science and Engineering, 2019, 177, 384-391.	4.2	11
31	Identification of organic species with â€œdouble-sided tapeâ€•characteristics on the surface of carbonate reservoir rock. Fuel, 2021, 288, 119627.	6.4	10
32	The Microstructural Properties of Coagulated Nonaqueous Carbon Black Dispersions. Journal of Colloid and Interface Science, 1993, 155, 471-481.	9.4	9
33	Placement Using Viscosified Non Newtonian Scale Inhibitor Slugs: The Effect of Shear-Thinning. SPE Production and Operations, 2007, 22, 434-441.	0.6	8
34	Sequential extraction and characterization of the organic layer on sandstone reservoir rock surface. Fuel, 2020, 276, 118062.	6.4	8
35	The Development and Application of a Novel Scale Inhibitor Deployment System. SPE Production and Operations, 2002, 17, 221-228.	0.6	7
36	Coreflood Studies Examine New Technologies That Minimize Intervention Throughout Well Life Cycle. SPE Production and Operations, 2006, 21, 161-173.	0.6	4

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37	A Surface Sensitive Study of the Influence of Corrosion Inhibitor on Chemical Scale Inhibition. , 2002, , .		3
38	Solâ€“Gel Chemistry for Ba2+ Sensors to Allow Oil Production Engineered Nanometrically. Journal of Sol-Gel Science and Technology, 2004, 32, 229-236.	2.4	3
39	Probing the Interactions of Dolomite Surfaces with Oil at the Molecular Scale. Energy & Fuels, 2019, 33, 6161-6169.	5.1	2
40	Neutron Reflection at the Calcite-Liquid Interface. , 2012, , 91-99.		2
41	A Systematic Investigation of Factors Affecting the Formation of Zinc Sulfide (ZnS). SPE Production and Operations, 2017, 32, 314-324.	0.6	1