Luuk K Koopal

List of Publications by Year
in descending order

189 papers	13,610 citations	16451 64 h-index	23533 111 g-index
192 all docs	192 docs citations	192 times ranked	9667 citing authors

#	Article	IF	Citations
1	Measurement and interpretation of electrokinetic phenomena. Journal of Colloid and Interface Science, 2007, 309, 194-224.	9.4	947
2	Ion binding to natural organic matter: competition, heterogeneity, stoichiometry and thermodynamic consistency. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 147-166.	4.7	708
3	Metal Ion Binding to Humic Substances: Application of the Non-Ideal Competitive Adsorption Model. Environmental Science & Technology, 1995, 29, 446-457.	10.0	545
4	Metal Ion Binding by Humic Acid:Â Application of the NICA-Donnan Model. Environmental Science & Technology, 1996, 30, 1687-1698.	10.0	498
5	Measurement and Interpretation of Electrokinetic Phenomena (IUPAC Technical Report). Pure and Applied Chemistry, 2005, 77, 1753-1805.	1.9	498
6	Adsorption of Humic Acid to Mineral Particles. 1. Specific and Electrostatic Interactions. Langmuir, 1998, 14, 2810-2819.	3.5	325
7	Humic Substances Considered as a Heterogeneous Donnan Gel Phase. Environmental Science & Technology, 1996, 30, 1805-1813.	10.0	292
8	Analytical Isotherm Equations for Multicomponent Adsorption to Heterogeneous Surfaces. Journal of Colloid and Interface Science, 1994, 166, 51-60.	9.4	276
9	Metal ion binding by natural organic matter: From the model to the field. Geochimica Et Cosmochimica Acta, 1996, 60, 2503-2513.	3.9	229
10	Adsorption of Humic Substances on Goethite:Â Comparison between Humic Acids and Fulvic Acidsâ€. Environmental Science & Technology, 2006, 40, 7494-7500.	10.0	226
11	Ion binding to natural organic matter: General considerations and the NICAâ€“Donnan model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 265, 40-54.	4.7	211
12	Electrolyte adsorption on heterogeneous surfaces: adsorption models. Journal of Colloid and Interface Science, 1986, 109, 219-228.	9.4	207
13	Adsorption of Cationic Surfactants on Silica. Surface Charge Effects. Langmuir, 1996, 12, 3188-3194.	3.5	194
14	Metal Ion Adsorption to Complexes of Humic Acid and Metal Oxides:Â Deviations from the Additivity Rule. Environmental Science & Technology, 1999, 33, 3892-3897.	10.0	162
15	Metal ion adsorption on heterogeneous surfaces: Adsorption models. Journal of Colloid and Interface Science, 1987, 116, 511-522.	9.4	160
16	Proton binding to humic substances. 1. Electrostatic effects. Environmental Science & Technology, 1993, 27, 2005-2014.	10.0	159
17	Analysis of proton binding by a peat humic acid using a simple electrostatic model. Geochimica Et Cosmochimica Acta, 1995, 59, 1101-1112.	3.9	149
18	Adsorption of Humic Acids to Mineral Particles. 2. Polydispersity Effects with Polyelectrolyte Adsorption. Langmuir, 1998, 14, 4210-4216.	3.5	145

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19	Analysis of ion binding on humic substances and the determination of intrinsic affinity distributions. Analytica Chimica Acta, 1990, 232, 189-207.	5.4	140
20	Adsorption of Cationic and Anionic Surfactants on Charged Metal Oxide Surfaces. Journal of Colloid and Interface Science, 1995, 170, 85-97.	9.4	138
21	Adsorption of Humic Acid on Goethite:Â Isotherms, Charge Adjustments, and Potential Profiles. Langmuir, 2004, 20, 689-700.	3.5	134
22	Interactions of calcium and fulvic acid at the goethite-water interface. Geochimica Et Cosmochimica Acta, 2005, 69, 325-339.	3.9	134
23	Adsorption of ionic surfactants on variable-charge surfaces. 1. Charge effects and structure of the adsorbed layer. Langmuir, 1992, 8, 2649-2659.	3.5	133
24	Polymer adsorption and its effect on the stability of hydrophobic colloids. Kolloid-Zeit & Zeit Fuer Polymers, 1972, 250, 689-702.	0.7	129
25	Kinetics of Humic Acid Adsorption at Solid-Water Interfaces. Environmental Science & Technology, 1999, 33, 2739-2744.	10.0	128
26	Adsorption of Cationic Surfactants on Silica. Comparison of Experiment and Theory. Langmuir, 1997, 13, 673-681.	3.5	124
27	DETERMINATION OF THE POINT-OF-ZERO CHARGE OF MANGANESE OXIDES WITH DIFFERENT METHODS INCLUDING AN IMPROVED SALT TITRATION METHOD. Soil Science, 2008, 173, 277-286.	0.9	123
28	Adsorption of nonionic surfactants on hydrophilic surfaces. An experimental and theoretical study on association in the adsorbed layer. Langmuir, 1992, 8, 2228-2239.	3.5	115
29	Lead Binding to Soil Fulvic and Humic Acids: NICA-Donnan Modeling and XAFS Spectroscopy. Environmental Science & Technology, 2013, 47, 11634-11642.	10.0	114
30	Proton binding to humic substances. 2. Chemical heterogeneity and adsorption models. Environmental Science & Technology, 1993, 27, 2015-2022.	10.0	113
31	The effect of chemical composition and molecular weight of polysaccharide depressants on the flotation of talc. International Journal of Mineral Processing, 2000, 59, 215-224.	2.6	110
32	Humic matter and contaminants. General aspects and modeling metal ion binding. Pure and Applied Chemistry, 2001, 73, 2005-2016.	1.9	108
33	Volume and structure of humic acids studied by viscometry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 213-224.	4.7	107
34	Proton Binding to Humic Acids: Electrostatic and Intrinsic Interactions. Journal of Colloid and Interface Science, 1999, 217, 37-48.	9.4	105
35	Mechanisms of soil humic acid adsorption onto montmorillonite and kaolinite. Journal of Colloid and Interface Science, 2017, 504, 457-467.	9.4	104
36	Surface ionization and complexation models: A comparison of methods for determining model parameters. Journal of Colloid and Interface Science, 1987, 118, 117-136.	9.4	103

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37	Desorption of Humic Acids from an Iron Oxide Surface. Environmental Science & Technology, 1998, 32, 2572-2577.	10.0	102
38	Effect of different vegetation cover on the vertical distribution of soil organic and inorganic carbon in the Zhifanggou Watershed on the loess plateau. Catena, 2016, 139, 191-198.	5.0	97
39	Contact angles on particles and plates. Colloids and Surfaces, 1987, 27, 57-64.	0.9	96
40	Surfactant adsorption to soil components and soils. Advances in Colloid and Interface Science, 2016, 231, 59-102.	14.7	95
41	Screening in Solutions of Star-Branched Polyelectrolytes. Macromolecules, 1999, 32, 2365-2377.	4.8	93
42	Determination of proton affinity distributions for humic substances. Environmental Science & Technology, 1993, 27, 846-856.	10.0	92
43	Soil inorganic carbon stock under different soil types and land uses on the Loess Plateau region of China. Catena, 2014, 121, 22-30.	5.0	92
44	The effect of cationic surfactants on wetting, colloid stability and flotation of silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 15-25.	4.7	85
45	Humic acid protein complexation. Geochimica Et Cosmochimica Acta, 2008, 72, 2090-2099.	3.9	84
46	Mineral hydroxides: from homogeneous to heterogeneous modelling. Electrochimica Acta, 1996, 41, 2293-2305.	5.2	83
47	Sorption of tetracycline on organo-montmorillonites. Journal of Hazardous Materials, 2012, 225-226, 28-35.	12.4	82
48	Determination of adsorption affinity distributions: A general framework for methods related to local isotherm approximations. Journal of Colloid and Interface Science, 1990, 135, 410-426.	9.4	81
49	Analysis of Metal-Ion Binding by a Peat Humic Acid Using a Simple Electrostatic Model. Journal of Colloid and Interface Science, 1995, 175, 448-460.	9.4	81
50	Wetting of Solid Surfaces: Fundamentals and Charge effects. Advances in Colloid and Interface Science, 2012, 179-182, 29-42.	14.7	78
51	Effects of crystallite size on the structure and magnetism of ferrihydrite. Environmental Science: Nano, 2016, 3, 190-202.	4.3	77
52	Interaction between Humic Acid and Lysozyme, Studied by Dynamic Light Scattering and Isothermal Titration Calorimetry. Environmental Science & Technology, 2009, 43, 591-596.	10.0	75
53	Interfacial electrochemistry of haematite (Î±-Fe2O3): homodisperse and heterodisperse sols. Colloids and Surfaces, 1986, 21, 457-468.	0.9	74
54	Chemical immobilisation of humic acid on silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 141, 385-395.	4.7	73

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55	Binding of ionic surfactants to purified humic acid. Journal of Colloid and Interface Science, 2004, 275, 360-367.	9.4	73
56	Characterization of polymers in the adsorbed state by double layer measurements. The silver iodide + poly(vinyl alcohol) system. Faraday Discussions of the Chemical Society, 1975, 59, 230.	2.2	71
57	Intensification of electrodialysis by applying a non-stationary electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 176, 195-212.	4.7	71
58	Ligand and Charge Distribution (LCD) model for the description of fulvic acid adsorption to goethite. Journal of Colloid and Interface Science, 2006, 302, 442-457.	9.4	71
59	Effects of Fe doping on the structures and properties of hexagonal birnessites â€“ Comparison with Co and Ni doping. Geochimica Et Cosmochimica Acta, 2013, 117, 1-15.	3.9	71
60	Modeling the Interactions between Humics, Ions, and Mineral Surfacesâ€. Environmental Science & Technology, 2006, 40, 7473-7480.	10.0	70
61	Electrochemistry of a model for patchwise heterogeneous surfaces: The rutile-hematite system. Journal of Colloid and Interface Science, 1990, 134, 122-138.	9.4	69
62	Comparison of semianalytical methods to analyze complexation with heterogeneous ligands. Environmental Science & Technology, 1992, 26, 763-771.	10.0	68
63	Annealed Star-Branched Polyelectrolytes in Solution. Macromolecules, 2002, 35, 9176-9190.	4.8	67
64	Adsorption of ionic surfactants on variable-charge surfaces. 2. Molecular architecture and structure of the adsorbed layer. Langmuir, 1992, 8, 2660-2665.	3.5	66
65	The effect of polymer polydispersity on the adsorption isotherm. Journal of Colloid and Interface Science, 1981, 83, 116-129.	9.4	65
66	The effect of polyethylene oxide molecular weight on determination of its concentration in aqueous solutions. Talanta, 1982, 29, 495-501.	5.5	65
67	Analysis of Copper Binding in the Ternary System Cu2+/Humic Acid/Goethite at Neutral to Acidic pH. Environmental Science & Technology, 2005, 39, 4886-4893.	10.0	63
68	Influence of Soil Humic and Fulvic Acid on the Activity and Stability of Lysozyme and Urease. Environmental Science & Technology, 2013, 47, 5050-5056.	10.0	63
69	Lattice models for the description of partitioning/ adsorption and retention in reversed-phase liquid chromatography, including surface and shape effects. Journal of Chromatography A, 1993, 656, 135-196.	3.7	61
70	Mixed adsorption of poly(vinylpyrrolidone) and sodium dodecylbenzenesulfonate on kaolinite. Journal of Colloid and Interface Science, 2003, 260, 1-8.	9.4	61
71	Adsorption of ionic surfactants on constant charge surfaces. Analysis based on a self-consistent field lattice model. Langmuir, 1992, 8, 1594-1602.	3.5	59
72	Copper binding to soil fulvic and humic acids: NICA-Donnan modeling and conditional affinity spectra. Journal of Colloid and Interface Science, 2016, 473, 141-151.	9.4	59

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73	Electrosorption on random and patchwise heterogeneous surfaces: electrical double-layer effects. Journal of Colloid and Interface Science, 1989, 128, 188-200.	9.4	58
74	Binding of cationic surfactants to humic substances. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 306, 29-39.	4.7	57
75	Adsorption of Cationic and Anionic Surfactants on Metal Oxide Surfaces: Surface Charge Adjustment and Competition Effects. Journal of Colloid and Interface Science, 1996, 177, 478-489.	9.4	53
76	A simple model for adsorption kinetics at charged solidâ€“liquid interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 192, 93-107.	4.7	52
77	Effect of soil fulvic and humic acid on binding of Pb to goethiteâ€“water interface: Linear additivity and volume fractions of HS in the Stern layer. Journal of Colloid and Interface Science, 2015, 457, 121-130.	9.4	52
78	Wettability: thermodynamic relationships between vapour adsorption and wetting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 89, 157-167.	4.7	51
79	Surface and volume charge densities of monodisperse porous silicas. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 142, 303-313.	4.7	51
80	Adsorption of Weak Polyelectrolytes on Surfaces with a Variable Charge. Self-Consistent-Field Calculations. Langmuir, 1997, 13, 4413-4421.	3.5	50
81	Adsorption of Nonionic Surfactants on Cellulose Surfaces:â€‰ Adsorbed Amounts and Kinetics. Langmuir, 2005, 21, 7768-7775.	3.5	48
82	Competitive Adsorption of Nonionic Surfactant and Nonionic Polymer on Silica. Langmuir, 2007, 23, 5532-5540.	3.5	48
83	Proton and Copper Binding to Humic Acids Analyzed by XAFS Spectroscopy and Isothermal Titration Calorimetry. Environmental Science & Technology, 2018, 52, 4099-4107.	10.0	48
84	Monodisperse, nonporous, spherical silica particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 166, 171-176.	4.7	47
85	Association and adsorption of nonionic flexible chain surfactants. Langmuir, 1990, 6, 1478-1484.	3.5	46
86	Micellization of ionic surfactants: calculations based on a self-consistent field lattice model. The Journal of Physical Chemistry, 1991, 95, 9569-9578.	2.9	46
87	Shape Evolution Synthesis of Monodisperse Spherical, Ellipsoidal, and Elongated Hematite (Î±-Fe₂O₃) Nanoparticles Using Ascorbic Acid. Crystal Growth and Design, 2014, 14, 157-164.	3.0	46
88	Electrophoretic study of polymer adsorption: Dextran, polyethylene oxide and polyvinyl alcohol on silver iodide. Journal of Colloid and Interface Science, 1988, 121, 49-62.	9.4	45
89	New Polymer Tensiometers: Measuring Matric Pressures Down to the Wilting Point. Vadose Zone Journal, 2007, 6, 196-202.	2.2	45
90	Effect of Soil Fulvic and Humic Acids on Pb Binding to the Goethite/Solution Interface: Ligand Charge Distribution Modeling and Speciation Distribution of Pb. Environmental Science & Technology, 2018, 52, 1348-1356.	10.0	45

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91	Characterization of adsorbed polymers from double layer experiments. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1979, 100, 895-912.	0.1	44
92	Electrostatic interaction models for ion binding to humic substances. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 265, 104-113.	4.7	43
93	The effect of particle size on the stability of haematite (Î±-Fe2O3) hydrosols. Colloids and Surfaces, 1987, 28, 67-83.	0.9	42
94	Equilibrium mono- and multicomponent adsorption models: From homogeneous ideal to heterogeneous non-ideal binding. Advances in Colloid and Interface Science, 2020, 280, 102138.	14.7	42
95	Modeling Metalâ€“Particle Interactions With an Emphasis on Natural Organic Matter. Environmental Science & Technology, 2006, 40, 7459-7466.	10.0	41
96	Environmental significance of mineral weathering and pedogenesis of loess on the southernmost Loess Plateau, China. Geoderma, 2011, 163, 219-226.	5.1	41
97	Thin Hydrocarbon and Water Films on Bare and Methylated Silica: Vapor Adsorption, Wettability, Adhesion, and Surface Forces. Langmuir, 1995, 11, 1701-1710.	3.5	40
98	Partitioning and adsorption of chain molecules at chemically modified surfaces in reversed phase liquid chromatography. The Journal of Physical Chemistry, 1991, 95, 6285-6297.	2.9	39
99	Adsorption on heterogeneous surfaces. Calculation of the adsorption energy distribution function or the affinity spectrum. Langmuir, 1993, 9, 2593-2605.	3.5	39
100	Proton binding to soil humic and fulvic acids: Experiments and NICA-Donnan modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 1152-1158.	4.7	39
101	Charge Adjustments upon Adsorption of a Weak Polyelectrolyte to a Mineral Oxide: The Hematiteâ€“Humic Acid System. Journal of Colloid and Interface Science, 1999, 212, 176-185.	9.4	38
102	Influence of NaCl on the Behavior of PEOâ^'PPOâ^'PEO Triblock Copolymers in Solution, at Interfaces, and in Asymmetric Liquid Films. Langmuir, 2005, 21, 4954-4963.	3.5	38
103	Surface heterogeneity analysis by gas adsorption: Improved calculation of the adsorption energy distribution function using a new algorithm named CAESAR. Journal of Colloid and Interface Science, 1985, 105, 183-196.	9.4	37
104	Transformation of hydroxycarbonate green rust into crystalline iron (hydr)oxides: Influences of reaction conditions and underlying mechanisms. Chemical Geology, 2013, 351, 57-65.	3.3	36
105	Size-dependent sorption of myo-inositol hexakisphosphate and orthophosphate on nano-Î³-Al2O3. Journal of Colloid and Interface Science, 2015, 451, 85-92.	9.4	33
106	Application of the NICA-Donnan model for proton, copper and uranyl binding to humic acid. Radiochimica Acta, 2004, 92, 567-574.	1.2	32
107	Humic substance charge determination by titration with a flexible cationic polyelectrolyte. Geochimica Et Cosmochimica Acta, 2011, 75, 5749-5761.	3.9	31
108	Local structure of Cu2+ in Cu-doped hexagonal turbostratic birnessite and Cu2+ stability under acid treatment. Chemical Geology, 2017, 466, 512-523.	3.3	31

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109	Chain length effects in the adsorption of surfactants at aqueous interfaces: Comparison of existing adsorption models with a new model. Journal of Colloid and Interface Science, 1986, 112, 362-379.	9.4	30
110	Adsorption of ionic surfactants on charged solids. Adsorption models. Colloids and Surfaces, 1986, 17, 371-388.	0.9	30
111	Heterogeneity Analysis for Binding Data Using an Adapted Smoothing Spline Technique. Environmental Science & Technology, 1994, 28, 1037-1047.	10.0	30
112	Structure and properties of vanadium(V)-doped hexagonal turbostratic birnessite and its enhanced scavenging of Pb2+ from solutions. Journal of Hazardous Materials, 2015, 288, 80-88.	12.4	30
113	CD-MUSIC-EDL Modeling of Pb²⁺ Adsorption on Birnessites: Role of Vacant and Edge Sites. Environmental Science & Technology, 2018, 52, 10522-10531.	10.0	30
114	Adsorption of organic ions at the solidâ€"electrolyte interface. Interpretation of common intersection points. Colloids and Surfaces, 1990, 51, 339-357.	0.9	29
115	Contact angles on particles and plates. Colloids and Surfaces, 1987, 27, 57-64.	0.9	28
116	Immobilisation of humic acids and binding of nitrophenol to immobilised humics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 201-212.	4.7	28
117	Surface charge regulation upon polyelectrolyte adsorption, hematite, polystyrene sulfonate, surface charge regulation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 291, 13-23.	4.7	28
118	Microstructure, Interaction Mechanisms, and Stability of Binary Systems Containing Goethite and Kaolinite. Soil Science Society of America Journal, 2012, 76, 389-398.	2.2	28
119	Calculation of the adsorption energy distribution from the adsorption isotherm by singular value decomposition. Colloids and Surfaces, 1985, 14, 87-95.	0.9	27
120	High Co-doping promotes the transition of birnessite layer symmetry from orthogonal to hexagonal. Chemical Geology, 2015, 410, 12-20.	3.3	27
121	Effects of phosphate and silicate on the transformation of hydroxycarbonate green rust to ferric oxyhydroxides. Geochimica Et Cosmochimica Acta, 2015, 171, 1-14.	3.9	27
122	Surfactant adsorption at liquid/liquid interfaces Comparison of experimental results with self-consistent field lattice calculations and molecular dynamics simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 81, 217-229.	4.7	25
123	An Analytical Isotherm Equation (CONICA) for Nonideal Mono- and Bidentate Competitive Ion Adsorption to Heterogeneous Surfaces. Journal of Colloid and Interface Science, 1996, 183, 35-50.	9.4	25
124	Phosphate speciation on Al-substituted goethite: ATR-FTIR/2D-COS and CD-MUSIC modeling. Environmental Science: Nano, 2019, 6, 3625-3637.	4.3	25
125	Titration microcalorimetry of poly(vinylpyrrolidone) and sodium dodecylbenzenesulphonate in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 160, 237-246.	4.7	24
126	Polymer tensiometers with ceramic cones: direct observations of matric pressures in drying soils. Hydrology and Earth System Sciences, 2010, 14, 1787-1799.	4.9	24

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127	Adsorption of interacting long-chain surfactant molecules: Isotherm equations. Journal of Colloid and Interface Science, 1988, 126, 493-507.	9.4	22
128	Predictive model of cationic surfactant binding to humic substances. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 379, 70-78.	4.7	22
129	Desorption ofmyo-inositol hexakisphosphate and phosphate from goethite by different reagents. Journal of Plant Nutrition and Soil Science, 2015, 178, 878-887.	1.9	20
130	Determination of H+ and metal ion affinity distributions for humic substances. Water, Air, and Soil Pollution, 1991, 57-58, 339-349.	2.4	19
131	Self-consistent field theory for wetting of binary polymerâ€“solvent mixtures on rigid and soft interfaces. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 579-587.	1.7	19
132	Microflotation Suppression and Enhancement Caused by Particle/Bubble Electrostatic Interaction. Journal of Colloid and Interface Science, 2001, 237, 208-223.	9.4	19
133	Confinement-Induced Phase Behavior and Adsorption Regulation of Ionic Surfactants in the Aqueous Film between Charged Solids. Journal of Physical Chemistry B, 2004, 108, 15033-15042.	2.6	19
134	Analysis of the Rate of Dissociation of Ligand Complexes. Environmental Science & Technology, 1994, 28, 1048-1053.	10.0	18
135	Modeling of Confinement-Induced Phase Transitions for Surfactant Layers on Amphiphilic Surfaces. Langmuir, 2005, 21, 11534-11545.	3.5	18
136	Adsorption of Heterogeneously Charged Nanoparticles on a Variably Charged Surface by the Extended Surface Complexation Approach:â€‰ Charge Regulation, Chemical Heterogeneity, and Surface Complexation. Journal of Physical Chemistry B, 2008, 112, 1339-1349.	2.6	18
137	Formation and Transformation of Iron Oxideâ€“Kaolinite Associations in the Presence of Iron(II). Soil Science Society of America Journal, 2011, 75, 45-55.	2.2	18
138	Zn sorption to biogenic bixbyite-like Mn 2 O 3 produced by Bacillus CUA isolated from soil: XAFS study with constraints on sorption mechanism. Chemical Geology, 2014, 389, 82-90.	3.3	18
139	Interaction between lysozyme and humic acid in layer-by-layer assemblies: Effects of pH and ionic strength. Journal of Colloid and Interface Science, 2014, 430, 40-46.	9.4	17
140	Roles of different types of oxalate surface complexes in dissolution process of ferrihydrite aggregates. Scientific Reports, 2018, 8, 2060.	3.3	17
141	Quantitative Characterization of the Site Density and the Charged State of Functional Groups on Biochar. ACS Sustainable Chemistry and Engineering, 2021, 9, 2600-2608.	6.7	17
142	Chapter 3.5 Ion adsorption on mineral oxide surfaces. Studies in Surface Science and Catalysis, 1996, 99, 757-796.	1.5	16
143	Adsorption of Cationic Surfactants on Silica Surface: 1. Adsorption Isotherms and Surface Charge. Colloid Journal, 2004, 66, 38-43.	1.3	16
144	One-step synthesis of sea urchin-like Î±-MnO2 using KIO4 as the oxidant and its oxidation of arsenite. Materials Letters, 2012, 77, 60-62.	2.6	16

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145	Mixed ad/desorption kinetics unraveled with the equilibrium adsorption isotherm. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 709-722.	4.7	16
146	Confinement-Induced Phase Transition and Hysteresis in Colloidal Forces for Surfactant Layers on Hydrophobic Surfaces. Langmuir, 2005, 21, 10089-10095.	3.5	15
147	Binding of alkylpyridinium chloride surfactants to sodium polystyrene sulfonate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 69-75.	4.7	15
148	Preparation and characterization of iridium and titanium oxide layers on silica particles. Journal of Electroanalytical Chemistry, 1993, 352, 107-118.	3.8	14
149	Modelling of the double layer and electrosorption of a patchwise heterogeneous surface on the basis off its homogeneous analogue 1. Non-interacting patches. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 73, 201-209.	4.7	14
150	The unperturbed conformation and interaction parameters of polyvinylalcohol in aqueous solutions. Polydispersity effects. Colloid and Polymer Science, 1981, 259, 490-498.	2.1	13
151	Measuring very negative water potentials with polymer tensiometers: principles, performance and applications. Biologia (Poland), 2009, 64, 438-442.	1.5	12
152	Influence of lysozyme complexation with purified Aldrich humic acid on lysozyme activity. European Journal of Soil Science, 2012, 63, 550-557.	3.9	12
153	One-step synthesis of Î´-MnO 2 nanoparticles using ascorbic acid and their scavenging properties to Pb(II), Zn(II) and methylene blue. Materials Chemistry and Physics, 2014, 148, 1149-1156.	4.0	12
154	Strontium adsorption and penetration in kaolinite at low Sr²⁺concentration. Soil Science and Plant Nutrition, 2017, 63, 14-17.	1.9	12
155	Self-Consistent-Field Description ofn-Alkanes in Bulk and at the Liquidâ"Vapor Interface. The Journal of Physical Chemistry, 1996, 100, 3607-3616.	2.9	11
156	Flotation of soot particles from a sandy soil sludge. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 293-301.	4.7	11
157	Effect of 1-1 electrolyte concentration on the adsorption/desorption of copper ion on synthetic birnessite. Journal of Soils and Sediments, 2010, 10, 879-885.	3.0	11
158	Influence of humic acid on transport, deposition and activity of lysozyme in quartz sand. Environmental Pollution, 2018, 242, 298-306.	7.5	11
159	Self-Consistent Field Theory for the Adsorption of Alkanes on Solid Surfaces. Langmuir, 1996, 12, 1863-1869.	3.5	10
160	Hydroxy-interlayered minerals in the Holocene paleosol on the southernmost Loess Plateau, China. Applied Clay Science, 2018, 153, 70-77.	5.2	10
161	Selective adsorption of soil humic acid on binary systems containing kaolinite and goethite: Assessment of sorbent interactions. European Journal of Soil Science, 2019, 70, 1098-1107.	3.9	10
162	Theoretical modeling of cationic surfactants aggregation at the silica/aqueous solution interface: Effects of pH and ionic strength. Physical Chemistry Chemical Physics, 2002, 4, 5846-5855.	2.8	9

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163	Confinement-Induced Symmetry Breaking of Interfacial Surfactant Layers. Journal of Physical Chemistry B, 2006, 110, 8756-8763.	2.6	9
164	Electrostatic potentials of humic acid: Fluorescence quenching measurements and comparison with model calculations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 27-32.	4.7	9
165	Comparison of strontium retardation for kaolinite, illite, vermiculite and allophane. Journal of Radioanalytical and Nuclear Chemistry, 2018, 317, 409-419.	1.5	9
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