List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Performance and interactions of diclofenac adsorption using Alginate/Carbon-based Films: Experimental investigation and statistical physics modelling. Chemical Engineering Journal, 2022, 428, 131929.	6.6	57
2	Lanthanum hydroxide engineered sewage sludge biochar for efficient phosphate elimination: Mechanism interpretation using physical modelling. Science of the Total Environment, 2022, 803, 149888.	3.9	20
3	Adsorption of methylene blue from aqueous solution on activated carbons and composite prepared from an agricultural waste biomass: A comparative study by experimental and advanced modeling analysis. Chemical Engineering Journal, 2022, 430, 132801.	6.6	181
4	A study of single and quaternary adsorption of Cu2+, Co2+, Ni2+ and Ag+ on sludge modified by alkaline fusion. Chemical Engineering Journal, 2022, 433, 133674.	6.6	7
5	Application of a multilayer physical model for the critical analysis of the adsorption of nicotinamide and propranolol on magnetic-activated carbon. Environmental Science and Pollution Research, 2022, 29, 30184-30192.	2.7	8
6	Understanding the Cu2+ adsorption mechanism on activated carbon using advanced statistical physics modelling. Environmental Science and Pollution Research, 2022, , 1.	2.7	1
7	Thermodynamics and Mechanism of the Adsorption of Heavy Metal Ions on Keratin Biomasses for Wastewater Detoxification. Adsorption Science and Technology, 2022, 2022, .	1.5	13
8	Adaptation of advanced physical models to interpret the adsorption isotherms of lead and cadmium ions onto activated carbon in single-compound and binary systems. Environmental Science and Pollution Research, 2022, 29, 62507-62513.	2.7	1
9	Using an enhanced multilayer model to analyze the performance of nickel alginate/graphene oxide aerogel, nickel alginate aerogel/activated carbon, and activated carbon in the adsorption of a textile dye pollutant. Environmental Science and Pollution Research, 2022, 29, 63622-63628.	2.7	9
10	Enhanced adsorption of ketoprofen and 2,4-dichlorophenoxyactic acid on Physalis peruviana fruit residue functionalized with H2SO4: Adsorption properties and statistical physics modeling. Chemical Engineering Journal, 2022, 445, 136773.	6.6	22
11	Simultaneous adsorption of acetaminophen, diclofenac and tetracycline by organo-sepiolite: Experiments and statistical physics modelling. Chemical Engineering Journal, 2021, 404, 126601.	6.6	48
12	Transforming pods of the species Capparis flexuosa into effective biosorbent to remove blue methylene and bright blue in discontinuous and continuous systems. Environmental Science and Pollution Research, 2021, 28, 8036-8049.	2.7	5
13	Trapping of Ag+, Cu2+, and Co2+ by faujasite zeolite Y: New interpretations of the adsorption mechanism via DFT and statistical modeling investigation. Chemical Engineering Journal, 2021, 420, 127712.	6.6	32
14	Application of a heterogeneous physical model for the adsorption of Cd2+, Ni2+, Zn2+ and Cu2+ ions on flamboyant pods functionalized with citric acid. Chemical Engineering Journal, 2021, 417, 127975.	6.6	47
15	Effective adsorption of dyes on an activated carbon prepared from carboxymethyl cellulose: Experiments, characterization and advanced modelling. Chemical Engineering Journal, 2021, 417, 128116.	6.6	175
16	Adsorption mechanism of Zn2+, Ni2+, Cd2+, and Cu2+ ions by carbon-based adsorbents: interpretation of the adsorption isotherms via physical modelling. Environmental Science and Pollution Research, 2021, 28, 30943-30954.	2.7	66
17	Theoretical interpretation of the adsorption of amoxicillin on activated carbon via physical model. Environmental Science and Pollution Research, 2021, 28, 30714-30721.	2.7	7
18	Theoretical assessment of the adsorption mechanism of ibuprofen, ampicillin, orange G and malachite green on a biomass functionalized with plasma. Journal of Environmental Chemical Engineering, 2021, 9, 104950.	3.3	23

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19	Impact of the stacking fault and surface defects states of colloidal CdSe nanocrystals on the removal of reactive black 5. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115029.	1.7	12
20	Theoretical study and analysis of o-nitrophenol adsorption using layered double hydroxides containing Ca-Al, Ni-Al and Zn-Al. Environmental Science and Pollution Research, 2021, 28, 44547-44556.	2.7	7
21	Make it clean, make it safe: A review on virus elimination via adsorption. Chemical Engineering Journal, 2021, 412, 128682.	6.6	40
22	Adsorption of ibuprofen on cocoa shell biomass-based adsorbents: Interpretation of the adsorption equilibrium via statistical physics theory. Journal of Molecular Liquids, 2021, 331, 115697.	2.3	33
23	Physicochemical assessment of anionic dye adsorption on bone char using a multilayer statistical physics model. Environmental Science and Pollution Research, 2021, 28, 67248-67255.	2.7	20
24	Adsorption of 3-aminophenol and resorcinol on avocado seed activated carbon: Mathematical modelling, thermodynamic study and description of adsorbent performance. Journal of Molecular Liquids, 2021, 342, 116952.	2.3	21
25	Adsorption of ketoprofen and 2- nitrophenol on activated carbon prepared from winery wastes: A combined experimental and theoretical study. Journal of Molecular Liquids, 2021, 333, 115906.	2.3	40
26	Recyclable process modeling study of hexavalent chromium elimination by thiol-based electron donor: Implications for practical applicability. Journal of Environmental Chemical Engineering, 2021, 9, 105645.	3.3	7
27	Modeling of binary and ternary batch adsorption systems via multidimensional logistic distribution and statistical physics. Journal of Environmental Chemical Engineering, 2021, 9, 105664.	3.3	2
28	Implementation of a multilayer statistical physics model to interpret the adsorption of food dyes on a chitosan film. Journal of Environmental Chemical Engineering, 2021, 9, 105516.	3.3	34
29	Preparation of an avocado seed hydrochar and its application as heavy metal adsorbent: Properties and advanced statistical physics modeling. Chemical Engineering Journal, 2021, 419, 129472.	6.6	44
30	Interpret the elimination behaviors of lead and vanadium from the water by employing functionalized biochars in diverse environmental conditions. Science of the Total Environment, 2021, 789, 148031.	3.9	12
31	Influence of plasma-based surface functionalization of palm fibers on the adsorption of diclofenac from water: Experiments, thermodynamics and removal mechanism. Journal of Water Process Engineering, 2021, 43, 102254.	2.6	18
32	Piaçava fibers as efficient material to remove a textile dye: Insights of the adsorption mechanism via advanced modelling. Journal of Molecular Liquids, 2021, 340, 117090.	2.3	2
33	A statistical physics analysis of the adsorption of Fe3+, Al3+ and Cu2+ heavy metals on chitosan films via homogeneous and heterogeneous monolayer models. Journal of Molecular Liquids, 2021, 343, 117617.	2.3	12
34	Theoretical analysis of the removal mechanism of Crystal Violet and Acid Red 97 dyes on Agaricus bisporus residue. Journal of Molecular Liquids, 2021, 343, 117621.	2.3	2
35	Adsorption of dyes brilliant blue, sunset yellow and tartrazine from aqueous solution on chitosan: Analytical interpretation via multilayer statistical physics model. Chemical Engineering Journal, 2020, 382, 122952.	6.6	123
36	H2O2-activated anthracite impregnated with chitosan as a novel composite for Cr(VI) and methyl orange adsorption in single-compound and binary systems: Modeling and mechanism interpretation. Chemical Engineering Journal, 2020, 380, 122445.	6.6	87

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37	Adsorption of amoxicillin and tetracycline on activated carbon prepared from durian shell in single and binary systems: Experimental study and modeling analysis. Chemical Engineering Journal, 2020, 379, 122320.	6.6	101
38	Statistical physics modeling and interpretation of the adsorption of dye remazol black B on natural and carbonized biomasses. Journal of Molecular Liquids, 2020, 299, 112099.	2.3	27
39	Adsorption of acid green and procion red on a magnetic geopolymer based adsorbent: Experiments, characterization and theoretical treatment. Chemical Engineering Journal, 2020, 383, 123113.	6.6	61
40	Adsorption of a non-steroidal anti-inflammatory drug onto MgAl/LDH-activated carbon composite – Experimental investigation and statistical physics modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124217.	2.3	51
41	Preparation and characterization of a novel mountain soursop seeds powder adsorbent and its application for the removal of crystal violet and methylene blue from aqueous solutions. Chemical Engineering Journal, 2020, 391, 123617.	6.6	70
42	Physicochemical interpretation of the adsorption of 4-Bromophenol and 4-Chloroaniline on an activated carbon. Journal of Environmental Chemical Engineering, 2020, 8, 104542.	3.3	18
43	Statistical physics interpretation of the adsorption mechanism of Pb2+, Cd2+ and Ni2+ on chicken feathers. Journal of Molecular Liquids, 2020, 319, 114168.	2.3	57
44	Adsorption of methylene blue on silica nanoparticles: Modelling analysis of the adsorption mechanism via a double layer model. Journal of Molecular Liquids, 2020, 319, 114348.	2.3	28
45	Understanding the adsorption mechanism of Ag+ and Hg2+ on functionalized layered double hydroxide via statistical physics modeling. Applied Clay Science, 2020, 198, 105828.	2.6	47
46	Adsorption of copper (II) cation on polysulfone/zeolite blend sheet membrane: Synthesis, characterization, experiments and adsorption modelling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 601, 124980.	2.3	30
47	Ternary adsorption of cobalt, nickel and methylene blue on a modified chitin: Phenomenological modeling and physical interpretation of the adsorption mechanism. International Journal of Biological Macromolecules, 2020, 158, 595-604.	3.6	44
48	Synergistic adsorption of Pb2+ and CrO42â^' on an engineered biochar highlighted by statistical physical modeling. Journal of Molecular Liquids, 2020, 312, 113483.	2.3	24
49	Fabrication and characterization of a thin coated adsorbent for antibiotic and analgesic adsorption: Experimental investigation and statistical physical modelling. Chemical Engineering Journal, 2020, 401, 126007.	6.6	28
50	pH tunable anionic and cationic heavy metal reduction coupled adsorption by thiol cross-linked composite: Physicochemical interpretations and fixed-bed column mathematical model study. Chemical Engineering Journal, 2020, 401, 126041.	6.6	39
51	Origin of the outstanding performance of Zn Al and Mg Fe layered double hydroxides in the adsorption of 2-nitrophenol: A statistical physics assessment. Journal of Molecular Liquids, 2020, 314, 113572.	2.3	13
52	Adsorption of hazardous dyes on functionalized multiwalled carbon nanotubes in single and binary systems: Experimental study and physicochemical interpretation of the adsorption mechanism. Chemical Engineering Journal, 2020, 389, 124467.	6.6	125
53	Removal of caffeine, nicotine and amoxicillin from (waste)waters by various adsorbents. A review. Journal of Environmental Management, 2020, 261, 110236.	3.8	152
54	Adsorption of methylene blue on comminuted raw avocado seeds: Interpretation of the effect of salts via physical monolayer model. Journal of Molecular Liquids, 2020, 305, 112815.	2.3	53

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55	Adsorption of congo red and methylene blue dyes on an ashitaba waste and a walnut shell-based activated carbon from aqueous solutions: Experiments, characterization and physical interpretations. Chemical Engineering Journal, 2020, 388, 124263.	6.6	319
56	Insights of the adsorption mechanism of methylene blue on brazilian berries seeds: Experiments, phenomenological modelling and DFT calculations. Chemical Engineering Journal, 2020, 394, 125011.	6.6	60
57	Kinetic, thermodynamic and mechanism study of the adsorption of phenol on Moroccan clay. Journal of Molecular Liquids, 2020, 312, 113383.	2.3	46
58	Adsorptive removal of sunset yellow dye by biopolymers functionalized with (3–aminopropyltriethoxysilane): Analytical investigation via advanced model. Journal of Molecular Liquids, 2020, 312, 113395.	2.3	9
59	Adsorption of methylene blue on agroindustrial wastes: Experimental investigation and phenomenological modelling. Progress in Biophysics and Molecular Biology, 2019, 141, 60-71.	1.4	130
60	Adsorption of crystal violet on biomasses from pecan nutshell, para chestnut husk, araucaria bark and palm cactus: Experimental study and theoretical modeling via monolayer and double layer statistical physics models. Chemical Engineering Journal, 2019, 378, 122101.	6.6	148
61	Adsorption of dyes acid red 1 and acid green 25 on grafted clay: Modeling and statistical physics interpretation. Journal of Molecular Liquids, 2019, 294, 111610.	2.3	47
62	Statistical physics modeling of phosphate adsorption onto chemically modified carbonaceous clay. Journal of Molecular Liquids, 2019, 279, 94-107.	2.3	35
63	Adsorption of indium (III) from aqueous solution on raw, ultrasound- and supercritical-modified chitin: Experimental and theoretical analysis. Chemical Engineering Journal, 2019, 373, 1247-1253.	6.6	43
64	Statistical physics-based analysis of the adsorption of Cu2+ and Zn2+ onto synthetic cancrinite in single-compound and binary systems. Journal of Environmental Chemical Engineering, 2019, 7, 103217.	3.3	45
65	Interpretation of the adsorption mechanism of Reactive Black 5 and Ponceau 4R dyes on chitosan/polyamide nanofibers via advanced statistical physics model. Journal of Molecular Liquids, 2019, 285, 165-170.	2.3	121
66	Adsorption of ibuprofen on organo-sepiolite and on zeolite/sepiolite heterostructure: Synthesis, characterization and statistical physics modeling. Chemical Engineering Journal, 2019, 371, 868-875.	6.6	92
67	Statistical physics modeling and interpretation of methyl orange adsorption on high–order mesoporous composite of MCM–48 silica with treated rice husk. Journal of Molecular Liquids, 2019, 285, 678-687.	2.3	46
68	Monolayer and multilayer adsorption of pharmaceuticals on activated carbon: Application of advanced statistical physics models. Journal of Molecular Liquids, 2019, 283, 276-286.	2.3	57
69	Surfactant–modified serpentine for fluoride and Cr(VI) adsorption in single and binary systems: Experimental studies and theoretical modeling. Chemical Engineering Journal, 2019, 369, 333-343.	6.6	64
70	Understanding the adsorption mechanism of phenol and 2-nitrophenol on a biopolymer-based biochar in single and binary systems via advanced modeling analysis. Chemical Engineering Journal, 2019, 371, 1-6.	6.6	107
71	Investigation of the adsorption mechanism of methylene blue (MB) on Cortaderia selloana flower spikes (FSs) and on Cortaderia selloana flower spikes derived carbon fibers (CFs). Journal of Molecular Liquids, 2019, 280, 268-273	2.3	22
72	Understanding the adsorption of Pb2+, Hg2+ and Zn2+ from aqueous solution on a lignocellulosic biomass char using advanced statistical physics models and density functional theory simulations. Chemical Engineering Journal, 2019, 365, 305-316.	6.6	94

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73	Adsorption of phenol on microwave-assisted activated carbons: Modelling and interpretation. Journal of Molecular Liquids, 2019, 274, 309-314.	2.3	46
74	Iron-modified composite adsorbent coating for azo dye removal and its regeneration by photo-Fenton process: Synthesis, characterization and adsorption mechanism interpretation. Chemical Engineering Journal, 2019, 361, 31-40.	6.6	56
75	A new statistical physics model for the ternary adsorption of Cu2+, Cd2+ and Zn2+ ions on bone char: Experimental investigation and simulations. Chemical Engineering Journal, 2018, 343, 544-553.	6.6	47
76	Equilibrium study of single and binary adsorption of lead and mercury on bentonite-alginate composite: Experiments and application of two theoretical approaches. Journal of Molecular Liquids, 2018, 253, 160-168.	2.3	46
77	Physicochemical and thermodynamic study of malachite green adsorption on raw and modified corn straw. Canadian Journal of Chemical Engineering, 2018, 96, 779-787.	0.9	7
78	Insights on the statistical physics modeling of the adsorption of Cd2+ and Pb2+ ions on bentonite-chitosan composite in single and binary systems. Chemical Engineering Journal, 2018, 354, 569-576.	6.6	93
79	Synthesis and characterization of a novel amphoteric adsorbent coating for anionic and cationic dyes adsorption: Experimental investigation and statistical physics modelling. Chemical Engineering Journal, 2018, 351, 221-229.	6.6	58
80	Physicochemical parameters interpretation for adsorption equilibrium of ethanol on metal organic framework: Application of the multilayer model with saturation. Journal of Molecular Liquids, 2017, 233, 537-542.	2.3	38
81	Physicochemical modeling of reactive violet 5 dye adsorption on home-made cocoa shell and commercial activated carbons using the statistical physics theory. Results in Physics, 2017, 7, 233-237.	2.0	30
82	Thermodynamic analysis of single and binary adsorption of Food Yellow 4 and Food Blue 2 on CC-chitosan: Application of statistical physics and IAST models. Journal of Molecular Liquids, 2017, 232, 499-505.	2.3	10
83	Theoretical study of hydrogen sorption on LaNi5 using statistical physics treatment: microscopic and macroscopic investigation. International Journal of Hydrogen Energy, 2017, 42, 2699-2712.	3.8	21
84	Adsorption of diclofenac and nimesulide on activated carbon: Statistical physics modeling and effect of adsorbate size. Journal of Physics and Chemistry of Solids, 2017, 109, 117-123.	1.9	48
85	Interpreting the hydrogen adsorption on organic groups functionalized MOF-5s by statistical physics model. International Journal of Hydrogen Energy, 2017, 42, 10023-10037.	3.8	8
86	Adsorption of amoxicillin and paracetamol on modified activated carbons: Equilibrium and positional entropy studies. Journal of Molecular Liquids, 2017, 234, 375-381.	2.3	59
87	New insights into the adsorption of crystal violet dye on functionalized multi-walled carbon nanotubes: Experiments, statistical physics and COSMO–RS models application. Journal of Molecular Liquids, 2017, 248, 890-897.	2.3	64
88	New insights into single-compound and binary adsorption of copper and lead ions on a treated sea mango shell: experimental and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 25927-25937.	1.3	78
89	Interpretation of single and competitive adsorption of cadmium and zinc on activated carbon using monolayer and exclusive extended monolayer models. Environmental Science and Pollution Research, 2017, 24, 19902-19908.	2.7	68
90	Single and binary adsorption of cobalt and methylene blue on modified chitin: Application of the Hill and exclusive extended Hill models. Journal of Molecular Liquids, 2017, 233, 543-550.	2.3	44

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91	Theoretical study of hydrogen desorption on Mg 50 Ni 50 using statistical physics treatment. International Journal of Hydrogen Energy, 2017, 42, 8733-8743.	3.8	10
92	Equilibrium modeling of single and binary adsorption of Food Yellow 4 and Food Blue 2 on modified chitosan using a statistical physics theory: new microscopic interpretations. Journal of Molecular Liquids, 2016, 222, 151-158.	2.3	27
93	Binary adsorption isotherms of two ionic liquids and ibuprofen on an activated carbon cloth: simulation and interpretations using statistical and COSMO-RS models. RSC Advances, 2016, 6, 67701-67714.	1.7	23
94	Modeling of muscone enantiomers olfactory response by an adsorption process onto the mouse muscone receptor MOR215-1. Journal of Molecular Liquids, 2016, 221, 896-903.	2.3	24
95	A microscopic study of absorption and desorption of hydrogen in LaNi4.85Al0.15 using the grand canonical ensemble of statistical physics. Fluid Phase Equilibria, 2016, 425, 215-229.	1.4	10
96	Experimental and theoretical studies of adsorption of ibuprofen on raw and two chemically modified activated carbons: new physicochemical interpretations. RSC Advances, 2016, 6, 12363-12373.	1.7	74
97	P-C isotherms of LaNi4.75Fe0.25 alloy at different temperatures statistical physics modeling of hydrogen sorption onto LaNi4.75Fe0.25: Microscopic interpretation and thermodynamic potential investigation. Fluid Phase Equilibria, 2016, 414, 170-181.	1.4	15
98	A new statistical physics model to interpret the binary adsorption isotherms of lead and zinc on activated carbon. Journal of Molecular Liquids, 2016, 214, 220-230.	2.3	53
99	Steric and energetic interpretations of the equilibrium adsorption of two new pyridinium ionic liquids and ibuprofen on a microporous activated carbon cloth: Statistical and COSMO-RS models. Fluid Phase Equilibria, 2016, 414, 156-163.	1.4	46
100	Adsorption of ethanol onto activated carbon: Modeling and consequent interpretations based on statistical physics treatment. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 853-869.	1.2	44
101	Equilibrium isotherm simulation of tetrachlorethylene on activated carbon using the double layer model with two energies: Steric and energetic interpretations. Fluid Phase Equilibria, 2016, 408, 259-264.	1.4	37
102	Application of statistical physics formalism to the modeling of adsorption isotherms of ibuprofen on activated carbon. Fluid Phase Equilibria, 2015, 387, 103-110.	1.4	208