Tushar Sen

List of Publications by Year
in descending order

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Version: 2024-02-01

53	6,577	218677	168389
papers	citations	26 h-index	53 g-index

53	53	53	7389
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dye and its removal from aqueous solution by adsorption: A review. Advances in Colloid and Interface Science, 2014, 209, 172-184.	14.7	3,052
2	Removal of anionic dye Congo red from aqueous solution by raw pine and acid-treated pine cone powder as adsorbent: Equilibrium, thermodynamic, kinetics, mechanism and process design. Water Research, 2012, 46, 1933-1946.	11.3	678
3	A Review on Heavy Metal Ions and Dye Adsorption from Water by Agricultural Solid Waste Adsorbents. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	358
4	Equilibrium, Kinetics and Mechanism of Removal of Methylene Blue from Aqueous Solution by Adsorption onto Pine Cone Biomass of Pinus radiata. Water, Air, and Soil Pollution, 2011, 218, 499-515.	2.4	334
5	Equilibrium, Kinetics, and Thermodynamics of Methylene Blue Adsorption by Pine Tree Leaves. Water, Air, and Soil Pollution, 2012, 223, 5267-5282.	2.4	243
6	Removal of zinc metal ion (Zn2+) from its aqueous solution by kaolin clay mineral: A kinetic and equilibrium study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 348, 100-108.	4.7	154
7	Adsorption of zinc (Zn2+) from aqueous solution on natural bentonite. Desalination, 2011, 267, 286-294.	8.2	153
8	Synthesis and Characterisation of Novel-Activated Carbon from Waste Biomass Pine Cone and Its Application in the Removal of Congo Red Dye from Aqueous Solution by Adsorption. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	139
9	Synthesis and characterization of slow pyrolysis pine cone bio-char in the removal of organic and inorganic pollutants from aqueous solution by adsorption: Kinetic, equilibrium, mechanism and thermodynamic. Bioresource Technology, 2017, 246, 76-81.	9.6	138
10	Adsorption performance of continuous fixed bed column for the removal of methylene blue (MB) dye using Eucalyptus sheathiana bark biomass. Research on Chemical Intermediates, 2016, 42, 2343-2364.	2.7	108
11	Batch and continuous closed circuit semi-fluidized bed operation: Removal of MB dye using sugarcane bagasse biochar and alginate composite adsorbents. Journal of Environmental Chemical Engineering, 2020, 8, 103637.	6.7	95
12	Adsorption removal of zinc (II) from aqueous phase by raw and base modified Eucalyptus sheathiana bark: Kinetics, mechanism and equilibrium study. Chemical Engineering Research and Design, 2016, 102, 336-352.	5.6	91
13	Adsorption of methylene blue dye from aqueous solution by novel biomassEucalyptus sheathianabark: equilibrium, kinetics, thermodynamics and mechanism. Desalination and Water Treatment, 2016, 57, 5858-5878.	1.0	84
14	Removal of cationic dye methylene blue (MB) from aqueous solution by ground raw and base modified pine cone powder. Environmental Earth Sciences, 2014, 71, 1507-1519.	2.7	75
15	Adsorption removal of Methylene Blue (MB) dye from aqueous solution by bio-char prepared from Eucalyptus sheathiana bark: kinetic, equilibrium, mechanism, thermodynamic and process design. Desalination and Water Treatment, 2016, 57, 28964-28980.	1.0	66
16	Processes in Pathogenic Biocolloidal Contaminants Transport in Saturated and Unsaturated Porous Media: A Review. Water, Air, and Soil Pollution, 2011, 216, 239-256.	2.4	62
17	Fixed-bed dynamic column adsorption study of methylene blue (MB) onto pine cone. Desalination and Water Treatment, 2015, 55, 1026-1039.	1.0	60
18	The influence of various physico-chemical process parameters on kinetics and growth mechanism of struvite crystallisation. Advanced Powder Technology, 2014, 25, 682-694.	4.1	57

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19	Process Optimization Study of Zn2+ Adsorption on Biochar-Alginate Composite Adsorbent by Response Surface Methodology (RSM). Water (Switzerland), 2019, 11, 325.	2.7	50
20	A comprehensive review on rheological studies of sludge from various sections of municipal wastewater treatment plants for enhancement of process performance. Advances in Colloid and Interface Science, 2018, 257, 19-30.	14.7	46
21	Anaerobic co-digestion of activated sludge and fruit and vegetable waste: Evaluation of mixing ratio and impact of hybrid (microwave and hydrogen peroxide) sludge pre- treatment on two-stage digester stability and biogas yield. Journal of Water Process Engineering, 2020, 37, 101498.	5.6	44
22	Adsorptive Removal of Aqueous Phase Copper (Cu2+) and Nickel (Ni2+) Metal Ions by Synthesized Biocharâ€“Biopolymeric Hybrid Adsorbents and Process Optimization by Response Surface Methodology (RSM). Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	36
23	Preparation and Characterization of Raw and Inorganic Acid-Activated Pine Cone Biochar and Its Application in the Removal of Aqueous-Phase Pb2+ Metal Ions by Adsorption. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	36
24	Effect of Ultrasonic, Microwave and Combined Microwaveâ€“Ultrasonic Pretreatment of Municipal Sludge on Anaerobic Digester Performance. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	35
25	Synthesis and characterization of a novel Ca-alginate-biochar composite as efficient zinc (Zn²⁺) adsorbent: Thermodynamics, process design, mass transfer and isotherm modeling. Separation Science and Technology, 2019, 54, 1106-1124.	2.5	33
26	Removal of Cadmium from Aqueous Solution Using Castor Seed Hull: A Kinetic and Equilibrium Study. Clean - Soil, Air, Water, 2010, 38, 850-858.	1.1	31
27	Performance and dynamic modelling of biochar and kaolin packed bed adsorption column for aqueous phase methylene blue (MB) dye removal. Environmental Technology (United Kingdom), 2019, 40, 3762-3772.	2.2	31
28	Removal of anionic surfactant sodium dodecyl sulphate from aqueous solution by adsorption onto pine cone biomass ofPinus Radiate:equilibrium, thermodynamic, kinetics, mechanism and process design. Desalination and Water Treatment, 2012, 45, 263-275.	1.0	28
29	Aqueous-phase methylene blue (MB) dye removal by mixture of eucalyptus bark (EB) biomass and kaolin clay (KC) adsorbents: kinetics, thermodynamics, and isotherm modeling. Separation Science and Technology, 2020, 55, 1036-1050.	2.5	27
30	Effect of hybrid (microwave-H2O2) feed sludge pretreatment on single and two-stage anaerobic digestion efficiency of real mixed sewage sludge. Chemical Engineering Research and Design, 2020, 136, 194-202.	5.6	22
31	Process modelling and optimization of a novel Semifluidized bed adsorption column operation for aqueous phase divalent heavy metal ions removal. Journal of Water Process Engineering, 2020, 37, 101406.	5.6	22
32	Removal of Zn2+ from Aqueous Solution using Castor Seed Hull. Water, Air, and Soil Pollution, 2011, 215, 609-620.	2.4	19
33	ANFIS based Modelling of dewatering performance and polymer dose optimization in a wastewater treatment plant. Journal of Environmental Chemical Engineering, 2018, 6, 1957-1968.	6.7	18
34	Role of chemical additives and their rheological properties in enhanced oil recovery. Reviews in Chemical Engineering, 2020, 36, 789-830.	4.4	17
35	Author's Responses to the comment by Canzano etÂal and also corrigendum to â€œRemoval of anionic dye Congo red from aqueous solution by raw pine and acid-treated pine cone powder as adsorbent: Equilibrium, thermodynamic, kinetics, mechanism and process designâ€•published in Water Research, Vol. 46, pp. 1933â€“1946, 2012. Water Research, 2012, 46, 4316-4317.	11.3	14
36	Impact of various physico-chemical parameters on spontaneous nucleation of struvite (MgNH₄PO₄.6H₂O) formation in a wastewater treatment plant: kinetic and nucleation mechanism. Desalination and Water Treatment, 2014, 52, 6620-6631.	1.0	14

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37	Rheological characteristics of municipal thickened excess activated sludge (TEAS): impacts of pH, temperature, solid concentration and polymer dose. Research on Chemical Intermediates, 2016, 42, 6567-6585.	2.7	14
38	Effects of Temperature, Polymer Dose, and Solid Concentration on the Rheological Characteristics and Dewaterability of Digested Sludge of Wastewater Treatment Plant (WWTP). Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	13
39	Impact of mineralogy, salinity, and temperature on the adsorption characteristics of a novel natural surfactant for enhanced oil recovery. Chemical Engineering Communications, 2022, 209, 143-157.	2.6	10
40	Effect of Combined Microwave-Ultrasonic Pretreatment of Real Mixed Sludge on the Enhancement of Anaerobic Digester Performance. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	9
41	Conditioning of Synthetic Sludge and Anaerobically Digested Sludge Using Chitosan, Organic Polyelectrolytes and Inorganic Metal Cations to Enhance Sludge Dewaterability. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	9
42	The Influence of Various Process Parameters on Dissolution Kinetics and Mechanism of Struvite Seed Crystals. Journal of the Institution of Engineers (India): Series A, 2017, 98, 293-302.	1.2	8
43	Removal of Mercury(II) from Aqueous Solutions Using the Leaves of the Rambai Tree (<i>Baccaurea) Tj ETQq1 1 0.784314 rgBT /Over	2.7	7
44	The relationship between physico-chemical and rheological characteristics of digested sludge, biosolid, centrate and the effects on dewatering performance (A case study). Journal of Water Process Engineering, 2017, 19, 193-204.	5.6	7
45	TOC removal from laundry wastewater by photoelectrochemical process on Fe₂O₃nanostructure. Desalination and Water Treatment, 2016, 57, 14379-14385.	1.0	6
46	Rheological characteristics of mixture of raw primary and thickened excess activated sludge: impact of mixing ratio, solid concentration, temperature and sludge age. Desalination and Water Treatment, 2015, , 1-12.	1.0	5
47	Optimisation of Microwave, Ultrasonic and Combined Microwave-Ultrasonic Pretreatment Conditions for Enhanced Anaerobic Digestion. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	4
48	Experimental hydrodynamic and bed characteristics of co-current gas-liquid-solid three phase semifluidization with liquid as the continuous phase. Particulate Science and Technology, 2020, 38, 999-1011.	2.1	4
49	Aqueous phase phenol removal from synthetic and real steel plant effluents through a batch and Semifluidized bed column operation: Experimental and model analysis. Journal of Environmental Chemical Engineering, 2020, 8, 104441.	6.7	4
50	Synthesis and Arsenic Adsorptive Characteristics of a Novel Magnetic Adsorbent. Journal of Environmental Conservation Engineering, 2017, 46, 156-162.	0.1	3
51	Semifluidized Bed Adsorption Column Studies for Simultaneous Removal of Aqueous Phase Pb2+ and Cd2+ by Composite Adsorbents: an Experimental and Mass Transfer Dynamic Modelâ€“Based Approach. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	2
52	Solvothermal Synthesis and Characterization of Magnetic Bamboo Charcoal (BC) Nanocomposites. Journal of the Institution of Engineers (India): Series E, 2019, 100, 155-165.	0.9	1
53	Authorâ€™s responses to the comment by Jean-Claude Bollinger and also corrigendum to our recent article published in Separation Science and Technology online March 4, 2019. Separation Science and Technology, 2020, 55, 825-827.	2.5	1