

Tushar Sen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8658036/publications.pdf>

Version: 2024-02-01

53
papers

6,577
citations

249298

26
h-index

190340

53
g-index

53
all docs

53
docs citations

53
times ranked

8223
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dye and its removal from aqueous solution by adsorption: A review. <i>Advances in Colloid and Interface Science</i> , 2014, 209, 172-184. | 7.0 | 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. <i>Water Research</i> , 2012, 46, 1933-1946. | 5.3 | 678 |
| 3 | A Review on Heavy Metal Ions and Dye Adsorption from Water by Agricultural Solid Waste Adsorbents. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1. | 1.1 | 358 |
| 4 | Equilibrium, Kinetics and Mechanism of Removal of Methylene Blue from Aqueous Solution by Adsorption onto Pine Cone Biomass of <i>Pinus radiata</i> . <i>Water, Air, and Soil Pollution</i> , 2011, 218, 499-515. | 1.1 | 334 |
| 5 | Equilibrium, Kinetics, and Thermodynamics of Methylene Blue Adsorption by Pine Tree Leaves. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5267-5282. | 1.1 | 243 |
| 6 | Removal of zinc metal ion (Zn ²⁺) from its aqueous solution by kaolin clay mineral: A kinetic and equilibrium study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 348, 100-108. | 2.3 | 154 |
| 7 | Adsorption of zinc (Zn ²⁺) from aqueous solution on natural bentonite. <i>Desalination</i> , 2011, 267, 286-294. | 4.0 | 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. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1. | 1.1 | 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. <i>Bioresource Technology</i> , 2017, 246, 76-81. | 4.8 | 138 |
| 10 | Adsorption performance of continuous fixed bed column for the removal of methylene blue (MB) dye using <i>Eucalyptus sheathiana</i> bark biomass. <i>Research on Chemical Intermediates</i> , 2016, 42, 2343-2364. | 1.3 | 108 |
| 11 | Batch and continuous closed circuit semi-fluidized bed operation: Removal of MB dye using sugarcane bagasse biochar and alginate composite adsorbents. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103637. | 3.3 | 95 |
| 12 | Adsorption removal of zinc (II) from aqueous phase by raw and base modified <i>Eucalyptus sheathiana</i> bark: Kinetics, mechanism and equilibrium study. <i>Chemical Engineering Research and Design</i> , 2016, 102, 336-352. | 2.7 | 91 |
| 13 | Adsorption of methylene blue dye from aqueous solution by novel biomass <i>Eucalyptus sheathiana</i> bark: equilibrium, kinetics, thermodynamics and mechanism. <i>Desalination and Water Treatment</i> , 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. <i>Environmental Earth Sciences</i> , 2014, 71, 1507-1519. | 1.3 | 75 |
| 15 | Adsorption removal of Methylene Blue (MB) dye from aqueous solution by bio-char prepared from <i>Eucalyptus sheathiana</i> bark: kinetic, equilibrium, mechanism, thermodynamic and process design. <i>Desalination and Water Treatment</i> , 2016, 57, 28964-28980. | 1.0 | 66 |
| 16 | Processes in Pathogenic Biocolloidal Contaminants Transport in Saturated and Unsaturated Porous Media: A Review. <i>Water, Air, and Soil Pollution</i> , 2011, 216, 239-256. | 1.1 | 62 |
| 17 | Fixed-bed dynamic column adsorption study of methylene blue (MB) onto pine cone. <i>Desalination and Water Treatment</i> , 2015, 55, 1026-1039. | 1.0 | 60 |
| 18 | The influence of various physico-chemical process parameters on kinetics and growth mechanism of struvite crystallisation. <i>Advanced Powder Technology</i> , 2014, 25, 682-694. | 2.0 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Process Optimization Study of Zn ²⁺ Adsorption on Biochar-Alginate Composite Adsorbent by Response Surface Methodology (RSM). <i>Water (Switzerland)</i> , 2019, 11, 325. | 1.2 | 50 |
| 20 | A comprehensive review on rheological studies of sludge from various sections of municipal wastewater treatment plants for enhancement of process performance. <i>Advances in Colloid and Interface Science</i> , 2018, 257, 19-30. | 7.0 | 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. <i>Journal of Water Process Engineering</i> , 2020, 37, 101498. | 2.6 | 44 |
| 22 | Adsorptive Removal of Aqueous Phase Copper (Cu ²⁺) and Nickel (Ni ²⁺) Metal Ions by Synthesized Biochar-“Biopolymeric Hybrid Adsorbents and Process Optimization by Response Surface Methodology (RSM). <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1. | 1.1 | 36 |
| 23 | Preparation and Characterization of Raw and Inorganic Acid-Activated Pine Cone Biochar and Its Application in the Removal of Aqueous-Phase Pb ²⁺ Metal Ions by Adsorption. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1. | 1.1 | 36 |
| 24 | Effect of Ultrasonic, Microwave and Combined Microwave-“Ultrasonic Pretreatment of Municipal Sludge on Anaerobic Digester Performance. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1. | 1.1 | 35 |
| 25 | Synthesis and characterization of a novel Ca-alginate-biochar composite as efficient zinc (Zn ²⁺) adsorbent: Thermodynamics, process design, mass transfer and isotherm modeling. <i>Separation Science and Technology</i> , 2019, 54, 1106-1124. | 1.3 | 33 |
| 26 | Removal of Cadmium from Aqueous Solution Using Castor Seed Hull: A Kinetic and Equilibrium Study. <i>Clean - Soil, Air, Water</i> , 2010, 38, 850-858. | 0.7 | 31 |
| 27 | Performance and dynamic modelling of biochar and kaolin packed bed adsorption column for aqueous phase methylene blue (MB) dye removal. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3762-3772. | 1.2 | 31 |
| 28 | Removal of anionic surfactant sodium dodecyl sulphate from aqueous solution by adsorption onto pine cone biomass of <i>Pinus Radiate</i> : equilibrium, thermodynamic, kinetics, mechanism and process design. <i>Desalination and Water Treatment</i> , 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. <i>Separation Science and Technology</i> , 2020, 55, 1036-1050. | 1.3 | 27 |
| 30 | Effect of hybrid (microwave-H ₂ O ₂) feed sludge pretreatment on single and two-stage anaerobic digestion efficiency of real mixed sewage sludge. <i>Chemical Engineering Research and Design</i> , 2020, 136, 194-202. | 2.7 | 22 |
| 31 | Process modelling and optimization of a novel Semifluidized bed adsorption column operation for aqueous phase divalent heavy metal ions removal. <i>Journal of Water Process Engineering</i> , 2020, 37, 101406. | 2.6 | 22 |
| 32 | Removal of Zn ²⁺ from Aqueous Solution using Castor Seed Hull. <i>Water, Air, and Soil Pollution</i> , 2011, 215, 609-620. | 1.1 | 19 |
| 33 | ANFIS based Modelling of dewatering performance and polymer dose optimization in a wastewater treatment plant. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1957-1968. | 3.3 | 18 |
| 34 | Role of chemical additives and their rheological properties in enhanced oil recovery. <i>Reviews in Chemical Engineering</i> , 2020, 36, 789-830. | 2.3 | 17 |
| 35 | Author's Responses to the comment by Canzano et al and also corrigendum to “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” published in <i>Water Research</i> , Vol. 46, pp. 1933-1946. 2012. <i>Water Research</i> . 2012, 46, 4316-4317. | 5.3 | 14 |
| 36 | Impact of various physico-chemical parameters on spontaneous nucleation of struvite (MgNH ₄ PO ₄ ·6H ₂ O) formation in a wastewater treatment plant: kinetic and nucleation mechanism. <i>Desalination and Water Treatment</i> , 2014, 52, 6620-6631. | 1.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Rheological characteristics of municipal thickened excess activated sludge (TEAS): impacts of pH, temperature, solid concentration and polymer dose. <i>Research on Chemical Intermediates</i> , 2016, 42, 6567-6585. | 1.3 | 14 |
| 38 | Effects of Temperature, Polymer Dose, and Solid Concentration on the Rheological Characteristics and Dewaterability of Digested Sludge of Wastewater Treatment Plant (WWTP). <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1. | 1.1 | 13 |
| 39 | Impact of mineralogy, salinity, and temperature on the adsorption characteristics of a novel natural surfactant for enhanced oil recovery. <i>Chemical Engineering Communications</i> , 2022, 209, 143-157. | 1.5 | 10 |
| 40 | Effect of Combined Microwave-Ultrasonic Pretreatment of Real Mixed Sludge on the Enhancement of Anaerobic Digester Performance. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1. | 1.1 | 9 |
| 41 | Conditioning of Synthetic Sludge and Anaerobically Digested Sludge Using Chitosan, Organic Polyelectrolytes and Inorganic Metal Cations to Enhance Sludge Dewaterability. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1. | 1.1 | 9 |
| 42 | The Influence of Various Process Parameters on Dissolution Kinetics and Mechanism of Struvite Seed Crystals. <i>Journal of the Institution of Engineers (India): Series A</i> , 2017, 98, 293-302. | 0.6 | 8 |
| 43 | Removal of Mercury(II) from Aqueous Solutions Using the Leaves of the Rambai Tree (<i>Baccaurea</i>) Tj ETQq1 1 0.784314 rgBT /Over 1.3 | 1.3 | 7 |
| 44 | The relationship between physico-chemical and rheological characteristics of digested sludge, biosolid, centrate and the effects on dewatering performance (A case study). <i>Journal of Water Process Engineering</i> , 2017, 19, 193-204. | 2.6 | 7 |
| 45 | TOC removal from laundry wastewater by photoelectrochemical process on Fe ₂ O ₃ nanostructure. <i>Desalination and Water Treatment</i> , 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. <i>Desalination and Water Treatment</i> , 2015, , 1-12. | 1.0 | 5 |
| 47 | Optimisation of Microwave, Ultrasonic and Combined Microwave-Ultrasonic Pretreatment Conditions for Enhanced Anaerobic Digestion. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1. | 1.1 | 4 |
| 48 | Experimental hydrodynamic and bed characteristics of co-current gas-liquid-solid three phase semifluidization with liquid as the continuous phase. <i>Particulate Science and Technology</i> , 2020, 38, 999-1011. | 1.1 | 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. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104441. | 3.3 | 4 |
| 50 | Synthesis and Arsenic Adsorptive Characteristics of a Novel Magnetic Adsorbent. <i>Journal of Environmental Conservation Engineering</i> , 2017, 46, 156-162. | 0.0 | 3 |
| 51 | Semifluidized Bed Adsorption Column Studies for Simultaneous Removal of Aqueous Phase Pb ²⁺ and Cd ²⁺ by Composite Adsorbents: an Experimental and Mass Transfer Dynamic Model-Based Approach. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1. | 1.1 | 2 |
| 52 | Solvothermal Synthesis and Characterization of Magnetic Bamboo Charcoal (BC) Nanocomposites. <i>Journal of the Institution of Engineers (India): Series E</i> , 2019, 100, 155-165. | 0.5 | 1 |
| 53 | Author's responses to the comment by Jean-Claude Bollinger and also corrigendum to our recent article published in <i>Separation Science and Technology</i> online March 4, 2019. <i>Separation Science and Technology</i> , 2020, 55, 825-827. | 1.3 | 1 |