

Sudip Chakraborty

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3234599/publications.pdf>

Version: 2024-02-01

191
papers

9,451
citations

38742

50
h-index

46799

89
g-index

202
all docs

202
docs citations

202
times ranked

14064
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of polymeric membranes and processes for potable water reuse. Progress in Polymer Science, 2018, 81, 209-237.	24.7	483
2	Photothermal Membrane Distillation for Seawater Desalination. Advanced Materials, 2017, 29, 1603504.	21.0	422
3	Defect Engineered g-C ₃ N ₄ for Efficient Visible Light Photocatalytic Hydrogen Production. Chemistry of Materials, 2015, 27, 4930-4933.	6.7	401
4	Increased dry-season length over southern Amazonia in recent decades and its implication for future climate projection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18110-18115.	7.1	379
5	Remediation of textile effluents by membrane based treatment techniques: A state of the art review. Journal of Environmental Management, 2015, 147, 55-72.	7.8	375
6	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. Environmental Science & Technology, 2020, 54, 7754-7757.	10.0	337
7	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	6.8	302
8	Nanofiltration of textile plant effluent for color removal and reduction in COD. Separation and Purification Technology, 2003, 31, 141-151.	7.9	265
9	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. ACS Energy Letters, 2017, 2, 837-845.	17.4	187
10	Rainforest-initiated wet season onset over the southern Amazon. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8481-8486.	7.1	183
11	A review of emerging trends in membrane science and technology for sustainable water treatment. Journal of Cleaner Production, 2020, 266, 121867.	9.3	175
12	Highly Sensitive and Selective Gas Detection Based on Silicene. Journal of Physical Chemistry C, 2015, 119, 16934-16940.	3.1	174
13	Pt nanoparticle-based highly sensitive platform for the enzyme-free amperometric sensing of H ₂ O ₂ . Biosensors and Bioelectronics, 2009, 24, 3264-3268.	10.1	162
14	Bioplastic from Renewable Biomass: A Facile Solution for a Greener Environment. Earth Systems and Environment, 2021, 5, 231-251.	6.2	161
15	A possible mechanism for the emergence of an additional band gap due to a Ti-O-C bond in the TiO ₂ -graphene hybrid system for enhanced photodegradation of methylene blue under visible light. RSC Advances, 2014, 4, 59890-59901.	3.6	143
16	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. Chemical Engineering Research and Design, 2021, 146, 220-256.	5.6	141
17	Poor Photovoltaic Performance of Cs ₃ Bi ₂ I ₉ : An Insight through First-Principles Calculations. Journal of Physical Chemistry C, 2017, 121, 17062-17067.	3.1	121
18	Photocatalytic degradation of pharmaceutical wastes by alginate supported TiO ₂ nanoparticles in packed bed photo reactor (PBPR). Ecotoxicology and Environmental Safety, 2015, 121, 263-270.	6.0	104

#	ARTICLE	IF	CITATIONS
19	The effects of thermally stable titanium silicon oxide nanoparticles on structure and performance of cellulose acetate ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2014, 133, 55-68.	7.9	100
20	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , 2017, 420, 403-424.	8.2	100
21	Na _{2.44} Mn _{1.79} (SO ₄) ₃ : a new member of the alluaudite family of insertion compounds for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18564-18571.	10.3	99
22	Synthesis and Optical Properties of Colloidal M ₃ Bi ₂ I ₉ (M = Cs, Rb) Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10643-10649.	3.1	95
23	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14404-14428.	7.1	94
24	Photocatalytic hollow fiber membranes for the degradation of pharmaceutical compounds in wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5014-5024.	6.7	88
25	Limiting Heterovalent B-Site Doping in CsPbI ₃ Nanocrystals: Phase and Optical Stability. <i>ACS Energy Letters</i> , 2019, 4, 1364-1369.	17.4	86
26	Experimental analysis, modeling and optimization of chromium (VI) removal from aqueous solutions by polymer-enhanced ultrafiltration. <i>Journal of Membrane Science</i> , 2014, 456, 139-154.	8.2	84
27	Effect of Transition Metal Cations on Stability Enhancement for Molybdate-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17977-17991.	8.0	82
28	Defect and Substitution-Induced Silicene Sensor to Probe Toxic Gases. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25256-25262.	3.1	81
29	Synthesis, structural and electrochemical properties of sodium nickel phosphate for energy storage devices. <i>Nanoscale</i> , 2016, 8, 11291-11305.	5.6	80
30	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and <i>Jatropha</i> : A review and case study. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 239-257.	16.4	80
31	Purification of lactic acid from microfiltrate fermentation broth by cross-flow nanofiltration. <i>Biochemical Engineering Journal</i> , 2012, 69, 130-137.	3.6	73
32	Membranes as a tool to support biorefineries: Applications in enzymatic hydrolysis, fermentation and dehydration for bioethanol production. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 873-890.	16.4	71
33	Treatment of laundry wastewater using polyethersulfone/polyvinylpyrrolidone ultrafiltration membranes. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 174-179.	6.0	69
34	Rationalizing the Hydrogen and Oxygen Evolution Reaction Activity of Two-Dimensional Hydrogenated Silicene and Germanene. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1536-1544.	8.0	69
35	Enzymatic transesterification of waste vegetable oil to produce biodiesel. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 229-235.	6.0	66
36	Immobilized biocatalytic process development and potential application in membrane separation: a review. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 43-58.	9.0	66

#	ARTICLE	IF	CITATIONS
37	Ionothermal Synthesis of High-Voltage <i>Alluaudite</i> $\text{Na}_{2+2x}\text{Fe}_{2-x}(\text{SO}_4)_3$ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6982-6991.	8.0	66
38	Optimization of lignin recovery from sugarcane bagasse using ionic liquid aided pretreatment. <i>Cellulose</i> , 2017, 24, 3191-3207.	4.9	63
39	Mechanistic Insight into Enhanced Hydrogen Evolution Reaction Activity of Ultrathin Hexagonal Boron Nitride-Modified Pt Electrodes. <i>ACS Catalysis</i> , 2018, 8, 6636-6644.	11.2	63
40	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. <i>Royal Society Open Science</i> , 2018, 5, 172017.	2.4	60
41	Response surface-optimized removal of Reactive Red 120 dye from its aqueous solutions using polyethyleneimine enhanced ultrafiltration. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 271-278.	6.0	59
42	A Vector Model of Trust for Developing Trustworthy Systems. <i>Lecture Notes in Computer Science</i> , 2004, , 260-275.	1.3	58
43	Fabrication of ultra-thin polyelectrolyte/carbon nanotube membrane by spray-assisted layer-by-layer technique: characterization and its anti-protein fouling properties for water treatment. <i>Desalination and Water Treatment</i> , 2013, 51, 6194-6200.	1.0	58
44	Remediation of Antiseptic Components in Wastewater by Photocatalysis Using TiO_2 Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3012-3020.	3.7	58
45	Production, purification, characterization, immobilization, and application of β -galactosidase: a review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 330-348.	1.5	56
46	Eggshell: A green adsorbent for heavy metal removal in an MBR system. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 57-62.	6.0	54
47	Poly (sodium-4-styrenesulfonate) assisted ultrafiltration for methylene blue dye removal from simulated wastewater: Optimization using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2008-2022.	6.7	54
48	Defected and Functionalized Germanene-based Nanosensors under Sulfur Comprising Gas Exposure. <i>ACS Sensors</i> , 2018, 3, 867-874.	7.8	53
49	$\text{Na}_{2.32}\text{Co}_{1.84}(\text{SO}_4)_3$ as a new member of the alluaudite family of high-voltage sodium battery cathodes. <i>Dalton Transactions</i> , 2017, 46, 55-63.	3.3	52
50	An interoperable context sensitive model of trust. <i>Journal of Intelligent Information Systems</i> , 2009, 32, 75-104.	3.9	51
51	Development of a two separate phase submerged biocatalytic membrane reactor for the production of fatty acids and glycerol from residual vegetable oil streams. <i>Biomass and Bioenergy</i> , 2012, 46, 574-583.	5.7	51
52	A comparative study of hydrogen evolution reaction on pseudo-monolayer WS_2 and PtS_2 : insights based on the density functional theory. <i>Catalysis Science and Technology</i> , 2017, 7, 687-692.	4.1	51
53	Electrocatalytic performance of carbon nanotube-supported palladium particles in the oxidation of formic acid and the reduction of oxygen. <i>Carbon</i> , 2010, 48, 3242-3249.	10.3	50
54	Synthesis, and crystal and electronic structure of sodium metal phosphate for use as a hybrid capacitor in non-aqueous electrolyte. <i>Dalton Transactions</i> , 2015, 44, 20108-20120.	3.3	50

#	ARTICLE	IF	CITATIONS
55	Synthesis of chitosan-cellulase nanohybrid and immobilization on alginate beads for hydrolysis of ionic liquid pretreated sugarcane bagasse. <i>Renewable Energy</i> , 2019, 133, 66-76.	8.9	50
56	Lactose hydrolysis by β -galactosidase enzyme: optimization using response surface methodology. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 244-252.	6.0	49
57	Phase evolution in calcium molybdate nanoparticles as a function of synthesis temperature and its electrochemical effect on energy storage. <i>Nanoscale Advances</i> , 2019, 1, 565-580.	4.6	49
58	Zero-Dimensional Lead-Free Hybrid Perovskite-like Material with a Quantum-Well Structure. <i>Chemistry of Materials</i> , 2019, 31, 1941-1945.	6.7	49
59	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. <i>Journal of Hazardous Materials Letters</i> , 2020, 1, 100001.	3.6	49
60	Biomass to biofuel: a review on production technology. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, S254.	1.5	46
61	Metal-Functionalized Silicene for Efficient Hydrogen Storage. <i>ChemPhysChem</i> , 2013, 14, 3463-3466.	2.1	45
62	Functionalization of hydrogenated silicene with alkali and alkaline earth metals for efficient hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18900.	2.8	45
63	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24874-24879.	10.3	45
64	Cesium Bismuth Iodide Solar Cells from Systematic Molar Ratio Variation of CsI and BiI ₃ . <i>Inorganic Chemistry</i> , 2019, 58, 12040-12052.	4.0	45
65	Substitution induced band structure shape tuning in hybrid perovskites (CH ₃ NH ₃ PbI _{3-x} Sn _x I ₃) for efficient solar cell applications. <i>RSC Advances</i> , 2015, 5, 107497-107502.	3.6	44
66	In pursuit of bifunctional catalytic activity in PdS ₂ pseudo-monolayer through reaction coordinate mapping. <i>Nano Energy</i> , 2018, 49, 283-289.	16.0	44
67	Molecular and Self-Trapped Excitonic Contributions to the Broadband Luminescence in Diamine-Based Low-Dimensional Hybrid Perovskite Systems. <i>Advanced Optical Materials</i> , 2018, 6, 1800751.	7.3	43
68	Graphene nanoplatelets in geopolymeric systems: A new dimension of nanocomposites. <i>Materials Letters</i> , 2019, 236, 550-553.	2.6	43
69	Low-Frequency Vibrational Spectrum of Water in the Hydration Layer of a Protein: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13626-13631.	2.6	40
70	Carbon nanotube supported platinum nanoparticles for the voltammetric sensing of hydrazine. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 222-227.	7.8	37
71	Investigation on Organic Molecule Additive for Moisture Stability and Defect Passivation via Physisorption in CH ₃ NH ₃ PbI ₃ Based Perovskite. <i>ACS Applied Energy Materials</i> , 2018, 1, 1870-1877.	5.1	37
72	Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 22-30.	6.0	35

#	ARTICLE	IF	CITATIONS
73	Relative influence of meteorological conditions and aerosols on the lifetime of mesoscale convective systems. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7426-7431.	7.1	34
74	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. 3 Biotech, 2018, 8, 374.	2.2	34
75	Preparation of foamed and unfoamed geopolymer/NaX zeolite/activated carbon composites for CO ₂ adsorption. Journal of Cleaner Production, 2022, 330, 129843.	9.3	34
76	Scrupulous Probing of Bifunctional Catalytic Activity of Borophene Monolayer: Mapping Reaction Coordinate with Charge Transfer. ACS Applied Energy Materials, 2018, 1, 3571-3576.	5.1	32
77	Tensile and Surface Mechanical Properties of Polyethersulphone (PES) and Polyvinylidene Fluoride (PVDF) Membranes. Journal of Theoretical and Applied Mechanics (Bulgaria), 2018, 48, 85-99.	0.0	31
78	Design and Control of Cooperativity in Spin-Crossover in Metal-Organic Complexes: A Theoretical Overview. Inorganics, 2017, 5, 47.	2.7	30
79	Enhancement of energy storage capacity of Mg functionalized silicene and silicane under external strain. Applied Physics Letters, 2014, 105, .	3.3	29
80	Microwave-Assisted Modified Polyimide Synthesis: A Facile Route to the Enhancement of Visible-Light-Induced Photocatalytic Performance for Dye Degradation. ACS Sustainable Chemistry and Engineering, 2017, 5, 6817-6826.	6.7	29
81	Maneuvering the Physical Properties and Spin States To Enhance the Activity of La-Sr-Co-Fe-O Perovskite Oxide Nanoparticles in Electrochemical Water Oxidation. ACS Applied Energy Materials, 2018, 1, 3342-3350.	5.1	29
82	Prevalence of SARS-CoV-2 in Communities Through Wastewater Surveillance—a Potential Approach for Estimation of Disease Burden. Current Pollution Reports, 2021, 7, 160-166.	6.6	29
83	A Way to Membrane-Based Environmental Remediation for Heavy Metal Removal. Environments - MDPI, 2021, 8, 52.	3.3	29
84	Mechanism and control of formation of porous silicon onp-type Si. Bulletin of Materials Science, 1998, 21, 195-201.	1.7	28
85	Arsenic Separation by a Membrane-Integrated Hybrid Treatment System: Modeling, Simulation, and Techno-Economic Evaluation. Separation Science and Technology, 2012, 47, 1091-1101.	2.5	28
86	A Clean-Green Synthesis of Platinum Nanoparticles Utilizing a Pernicious Weed Lantana (<i>Lantana Camara</i>). American Journal of Engineering and Applied Sciences, 2016, 9, 84-90.	0.6	28
87	Nanocomposite polymeric membrane a new trend of water and wastewater treatment: A short review. Groundwater for Sustainable Development, 2021, 12, 100533.	4.6	28
88	Artificial Intelligence-Based Optimization of Industrial Membrane Processes. Earth Systems and Environment, 2021, 5, 385-398.	6.2	28
89	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W-Ti codoping. Journal of Materials Chemistry A, 2018, 6, 16965-16974.	10.3	27
90	Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor. Catalysis Today, 2019, 331, 68-77.	4.4	27

#	ARTICLE	IF	CITATIONS
91	Catalytic Membrane Reactors: The Industrial Applications Perspective. <i>Catalysts</i> , 2021, 11, 691.	3.5	27
92	Synthesis and Characterization of Blended Cellulose Acetate Membranes. <i>Polymers</i> , 2022, 14, 4.	4.5	27
93	Synthesis of CdSe Nanocrystals in a Noncoordinating Solvent: Effect of Reaction Temperature on Size and Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1965-1968.	0.9	26
94	A combined theoretical and experimental approach of a new ternary metal oxide in molybdate composite for hybrid energy storage capacitors. <i>APL Materials</i> , 2018, 6, .	5.1	26
95	Nanoporous hollow fiber polyethersulfone membranes for the removal of residual contaminants from treated wastewater effluent: Functional and molecular implications. <i>Separation and Purification Technology</i> , 2017, 189, 20-31.	7.9	25
96	Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support. <i>Applied Clay Science</i> , 2018, 155, 20-29.	5.2	25
97	Correlation between the Dynamics of Hydrogen Bonds and the Local Density Reorganization in the Protein Hydration Layer. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7626-7630.	2.6	24
98	Development of a mathematical model to predict different parameters during pharmaceutical wastewater treatment using TiO ₂ coated membrane. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 193-198.	6.0	24
99	TiS ₂ Monolayer as an Emerging Ultrathin Bifunctional Catalyst: Influence of Defects and Functionalization. <i>ChemPhysChem</i> , 2019, 20, 608-617.	2.1	24
100	Photo-degradation, thermodynamic and kinetic study of carcinogenic dyes via zinc oxide/graphene oxide nanocomposites. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3171-3191.	5.8	24
101	Revealing an unusual transparent phase of superhard iron tetraboride under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17050-17053.	7.1	23
102	Mapping Structural Changes in Electrode Materials: Application of the Hybrid Eigenvector-Following Density Functional Theory (DFT) Method to Layered Li _{0.5} MnO ₂ . <i>Chemistry of Materials</i> , 2015, 27, 5550-5561.	6.7	23
103	Improvement in Hydrogen Desorption from $\hat{1}^2$ and $\hat{1}^3$ MgH ₂ upon Transition Metal Doping. <i>ChemPhysChem</i> , 2015, 16, 2557-2561.	2.1	22
104	Probing the pseudo-1-D ion diffusion in lithium titanium niobate anode for Li-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22323-22330.	2.8	21
105	Predicting electrochemical properties and ionic diffusion in Na _{2+2x} Mn _{2x} (SO ₄) ₃ : crafting a promising high voltage cathode material. <i>Journal of Materials Chemistry A</i> , 2016, 4, 451-457.	10.3	21
106	Enzyme Immobilization on Polymer Membranes: A Quantum and Molecular Mechanics Study. <i>Computation</i> , 2019, 7, 56.	2.0	21
107	On the role of aerosols, humidity, and vertical wind shear in the transition of shallow-to-deep convection at the Green Ocean Amazon 2014/5 site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11135-11148.	4.9	20
108	Bioconversion of lignocellulosic biomass to bioethanol and biobutanol. , 2020, , 67-125.		20

#	ARTICLE	IF	CITATIONS
109	Bioadsorption of industrial dyes from aqueous solution onto water hyacinth (<i>Eichornia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2014, 52, 1484-1494.	1.0	19
110	Formulation of a 3D conjugated multiphase transport model to predict drying process behavior of irregular-shaped vegetables. Journal of Food Engineering, 2016, 176, 36-55.	5.2	19
111	Stability of Film-Forming Dispersions: Affects the Morphology and Optical Properties of Polymeric Films. Polymers, 2021, 13, 1464.	4.5	19
112	Photocatalytic Degradation of Textile Dye on Blended Cellulose Acetate Membranes. Polymers, 2022, 14, 636.	4.5	19
113	Mechanistic study of Na-ion diffusion and small polaron formation in $Kr\tilde{A}h\tilde{n}k\tilde{i}t\tilde{e} Na_{2}Fe(SO_{4})_{2}\cdot 2H_{2}O$ based cathode materials. Journal of Materials Chemistry A, 2017, 5, 21726-21739.	10.3	18
114	Emergence of $Si_{2}BN$ Monolayer as Efficient HER Catalyst under Co-functionalization Influence. ACS Applied Energy Materials, 2019, 2, 8441-8448.	5.1	18
115	Study of bio-materials for removal of the oil spill. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	18
116	Local electrocatalytic activity of PtRu supported on nitrogen-doped carbon nanotubes towards methanol oxidation by scanning electrochemical microscopy. Journal of Materials Chemistry A, 2021, 9, 21291-21301.	10.3	18
117	Conductivity Modulation of Porous Silicon by Formation Parameters. Physica Status Solidi A, 2002, 191, 535-547.	1.7	17
118	Saline Accelerates Oxime Reaction with Aldehyde and Keto Substrates at Physiological pH. Scientific Reports, 2018, 8, 2193.	3.3	17
119	Dynamics of Water in the Hydration Layer of a Partially Unfolded Structure of the Protein HP-36. Journal of Physical Chemistry B, 2008, 112, 6500-6507.	2.6	16
120	Electronic density-of-states of amorphous vanadium pentoxide films: Electrochemical data and density functional theory calculations. Journal of Applied Physics, 2014, 115, .	2.5	16
121	Developing a sustainable water resource management strategy for a fluoride-affected area: a contingent valuation approach. Clean Technologies and Environmental Policy, 2014, 16, 341-349.	4.1	16
122	Studies on the separation of proteins and lactose from casein whey by cross-flow ultrafiltration. Desalination and Water Treatment, 2015, 54, 481-501.	1.0	16
123	Application of ANFIS model to optimise the photocatalytic degradation of chlorhexidine digluconate. RSC Advances, 2014, 4, 21141.	3.6	15
124	Membrane applications for biogas production and purification processes: an overview on a smart alternative for process intensification. RSC Advances, 2015, 5, 14156-14186.	3.6	15
125	Cationic Effect on Pressure Driven Spin-State Transition and Cooperativity in Hybrid Perovskites. Chemistry of Materials, 2016, 28, 8379-8384.	6.7	15
126	Process-intensified waste valorization and environmentally friendly d-limonene extraction. Euro-Mediterranean Journal for Environmental Integration, 2019, 4, 1.	1.3	15

#	ARTICLE	IF	CITATIONS
127	Where Does Moisture Come From Over the Congo Basin?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006024.	3.0	15
128	The Influence of Aerosols and Meteorological Conditions on the Total Rain Volume of the Mesoscale Convective Systems Over Tropical Continents. Geophysical Research Letters, 2018, 45, 13,099.	4.0	14
129	Sensitive and selective detection of copper ions using low cost nitrogen doped carbon quantum dots as a fluorescent sensing platform. ISSS Journal of Micro and Smart Systems, 2017, 6, 109-117.	2.0	13
130	Cystamine-configured lead halide based 2D hybrid molecular crystals: Synthesis and photoluminescence systematics. APL Materials, 2018, 6, 114204.	5.1	13
131	Current computational trends in polyanionic cathode materials for Li and Na batteries. Journal of Physics Condensed Matter, 2018, 30, 283003.	1.8	13
132	Fabrication of WO ₃ based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. International Journal of Hydrogen Energy, 2021, 46, 39058-39066.	7.1	13
133	Sequencing batch reactors (SBRs) for BioH ₂ production: Reactor operation criteria. International Journal of Hydrogen Energy, 2014, 39, 4863-4869.	7.1	12
134	High pressure-induced distortion in face-centered cubic phase of thallium. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11143-11147.	7.1	12
135	Production of total reducing sugar (TRS) from acid hydrolysed potato peels by sonication and its optimization. Environmental Technology (United Kingdom), 2013, 34, 1077-1084.	2.2	11
136	Biosorption of lead ions (Pb ²⁺) from simulated wastewater using residual biomass of microalgae. Desalination and Water Treatment, 0, , 1-11.	1.0	11
137	Theoretical Evidence behind Bifunctional Catalytic Activity in Pristine and Functionalized Al ₂ C Monolayers. ChemPhysChem, 2018, 19, 148-152.	2.1	11
138	Mapping the sodium intercalation mechanism, electrochemical properties and structural evolution in non-stoichiometric alluaudite Na ₂ Fe ₂ (SO ₄) ₃ cathode materials. Journal of Materials Chemistry A, 2019, 7, 17446-17455.	10.3	11
139	Relationships between convective structure and transport of aerosols to the upper troposphere deduced from satellite observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6515-6536.	3.3	10
140	Deep Convective Evolution From Shallow Clouds Over the Amazon and Congo Rainforests. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030962.	3.3	10
141	Micro-CFD modelling of ultrafiltration bio-fouling. Separation Science and Technology, 2023, 58, 131-140.	2.5	10
142	Industrial Waste-an Economical Approach for Adsorption of Heavy Metals from Ground Water. American Journal of Engineering and Applied Sciences, 2015, 8, 48-56.	0.6	9
143	BC ₃ Sheet Functionalized with Lithium-Rich Species Emerging as a Reversible Hydrogen Storage Material. ChemPhysChem, 2015, 16, 634-639.	2.1	9
144	New Concept on Photocatalytic Degradation of Thiophene Derivatives: Experimental and DFT Studies. Journal of Physical Chemistry C, 2018, 122, 15646-15651.	3.1	9

#	ARTICLE	IF	CITATIONS
145	Transmission of SARS-Cov-2 and other enveloped viruses to the environment through protective gear: a brief review. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2021, 6, 48.	1.3	9
146	Bromination-induced stability enhancement with a multivalley optical response signature in guanidinium [C(NH ₂) ₃] ⁺ -based hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18561-18568.	10.3	8
147	Kinetic of lactic acid production from sugarcane juice using <i>Lactobacillus plantarum</i> NCIM 2912. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 374-381.	1.5	7
148	Bioreactor and Enzymatic Reactions in Bioremediation. , 2014, , 455-495.		7
149	Synthesis and functionality of proteinacious nutraceuticals from casein whey—A clean and safe route of valorization of dairy waste. <i>Chemical Engineering Research and Design</i> , 2015, 97, 192-207.	5.6	7
150	Optimization of process parameters during photocatalytic degradation of phenol in UV annular reactor. <i>Desalination and Water Treatment</i> , 2015, 54, 2270-2279.	1.0	7
151	Reliable Delivery of Event Data from Sensors to Actuators in Pervasive Computing Environments. <i>Lecture Notes in Computer Science</i> , 2007, , 77-92.	1.3	7
152	Advanced descriptors for long-range noncovalent interactions between SARS-CoV-2 spikes and polymer surfaces. <i>Separation and Purification Technology</i> , 2021, , 120125.	7.9	7
153	Biocatalytic membrane reactors: principles, preparation and biotechnological, pharmaceutical and medical applications. , 2013, , 846-887.		6
154	Optimized Production of Glucose Syrup and Enzyme Membrane Reactor Using In Situ Product Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21305-21311.	3.7	6
155	Why Ag(I) grafted porous carbon matrix prefers alkene over alkane? An inside view from ab-initio study. <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110940.	4.4	6
156	Statistical Simulation, a Tool for the Process Optimization of Oily Wastewater by Crossflow Ultrafiltration. <i>Membranes</i> , 2022, 12, 676.	3.0	6
157	Defect Thermodynamics in Nonstoichiometric Alluaudite-Based Polyanionic Materials for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32856-32868.	8.0	5
158	Renewable Energy-Powered Membrane Systems for Water Desalination. , 2019, , 153-177.		5
159	p-Trust: A New Model of Trust to Allow Finer Control Over Privacy in Peer-to-Peer Framework. <i>Journal of Computers</i> , 2007, 2, .	0.4	5
160	Aerosol atmospheric rivers: climatology, event characteristics, and detection algorithm sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8175-8195.	4.9	5
161	Advance membrane separation processes for biorefineries. , 2016, , 3-28.		4
162	Rare earth functionalization effect in optical response of ZnO nano clusters. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	4

#	ARTICLE	IF	CITATIONS
163	Role of relativity in high-pressure phase transitions of thallium. <i>Scientific Reports</i> , 2017, 7, 42983.	3.3	4
164	Comparative analysis of immobilized biocatalyst: study of process variables in trans-esterification reaction. <i>3 Biotech</i> , 2019, 9, 443.	2.2	4
165	Characterization of an asymmetric ultrafiltration membrane prepared from TiO ₂ -smectite nanocomposites doped with commercial TiO ₂ and its application to the treatment of textile wastewater. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2020, 5, 1.	1.3	4
166	Role of a constructed wetland to humify effluent organic matter from a wastewater treatment plant. <i>Desalination and Water Treatment</i> , 2014, 52, 5840-5847.	1.0	3
167	Conventional macro- and micromolecules separation. , 2015, , 105-126.		3
168	Membrane reactors for dry reforming of methane. , 2015, , 99-144.		3
169	On the role of aerosol radiative effect in the wet season onset timing over the Congo rainforest during boreal autumn. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12855-12866.	4.9	3
170	Using Trust-Based Information Aggregation for Predicting Security Level of Systems. <i>Lecture Notes in Computer Science</i> , 2010, , 241-256.	1.3	3
171	Trust-Based Security Level Evaluation Using Bayesian Belief Networks. <i>Lecture Notes in Computer Science</i> , 2010, , 154-186.	1.3	2
172	Editorial. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 1-2.	6.0	2
173	Editorial. <i>Ecotoxicology and Environmental Safety</i> , 2016, 134, 287.	6.0	2
174	Improving Cellulose Structure for Bioconversion: Sugarcane Bagasse Pretreatment Accompanied by Lignin Recovery and Ionic Liquid Recycle. <i>Advances in Science, Technology and Innovation</i> , 2018, , 1155-1156.	0.4	2
175	Utilization of response surface methodology in optimization of de-oiled olive pomace activated biochar production. <i>E3S Web of Conferences</i> , 2020, 148, 02006.	0.5	2
176	Allowing Finer Control Over Privacy Using Trust as a Benchmark. , 0, , .		1
177	Effect of unfolding on the thickness of the hydration layer of a protein. <i>Indian Journal of Physics</i> , 2009, 83, 49-64.	1.8	1
178	Time dependent DFT investigation of the optical response in pristine and Gd doped Al ₂ O ₃ . <i>RSC Advances</i> , 2016, 6, 72537-72543.	3.6	1
179	Technological Aspects of Lignocellulose Conversion into Biofuels: Key Challenges and Practical Solutions. , 2018, , 117-154.		1
180	Conventional macro- and micromolecules separation. , 2021, , 89-107.		1

#	ARTICLE	IF	CITATIONS
181	Assessment of groundwater quality using statistical methods: a case study. Arabian Journal of Geosciences, 2022, 15, .	1.3	1
182	Design of an integrated membrane system to produce dairy byâ€product from waste processing. International Journal of Food Science and Technology, 2023, 58, 2104-2114.	2.7	1
183	Improvement in Hydrogen Desorption from $\hat{2}$ - and $\hat{3}$ -MgH ₂ upon Transition-Metal Doping. ChemPhysChem, 2015, 16, 2481-2481.	2.1	0
184	Feedstock Availability, Composition, New Potential Resources for Biohydrogen, Biomethane, and Biobutanol Production via Biotechnological Routes. , 2017, , 261-276.		0
185	Biofuels and Bioenergy from Residual Biomasses: When a Waste Becomes a Resource. Advances in Science, Technology and Innovation, 2018, , 1569-1571.	0.4	0
186	Photocatalytic Membrane Reactor for Sustainable Environmental Remediation. Advances in Science, Technology and Innovation, 2018, , 57-59.	0.4	0
187	Removal of Reactive Red 120 from Model Textile Waste Solution by Micellar-Enhanced Ultrafiltration. IOP Conference Series: Materials Science and Engineering, 2020, 804, 012053.	0.6	0
188	Metals toxic pollutants in the environment: anthropogenic and geological causes and remediation. , 2020, , 109-124.		0
189	Optimized Functionalization of Industrial Waste for Oil Spill Remediation. Environmental Science and Engineering, 2021, , 459-463.	0.2	0
190	The generalization of an n-patch model for Leishmaniasis. Communications in Mathematical Biology and Neuroscience, 0, 2017, .	0.0	0
191	Industrial Water Pollution and Treatment - Can Membranes be a Solution?. Materials Research Foundations, 2018, , 295-351.	0.3	0