Sudip Chakraborty

List of Publications by Year
in descending order

191	9,451	38742 50	46799 89
papers	citations	h-index	g-index

202	202	202	14064
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Micro-CFD modelling of ultrafiltration bio-fouling. Separation Science and Technology, 2023, 58, 131-140.	2.5	10
2	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
3	Preparation of foamed and unfoamed geopolymer/NaX zeolite/activated carbon composites for CO2 adsorption. Journal of Cleaner Production, 2022, 330, 129843.	9.3	34
4	Photocatalytic Degradation of Textile Dye on Blended Cellulose Acetate Membranes. Polymers, 2022, 14, 636.	4.5	19
5	Synthesis and Characterization of Blended Cellulose Acetate Membranes. Polymers, 2022, 14, 4.	4.5	27
6	Assessment of groundwater quality using statistical methods: a case study. Arabian Journal of Geosciences, 2022, 15, .	1.3	1
7	Aerosol atmospheric rivers: climatology, event characteristics, and detection algorithm sensitivities. Atmospheric Chemistry and Physics, 2022, 22, 8175-8195.	4.9	5
8	Statistical Simulation, a Tool for the Process Optimization of Oily Wastewater by Crossflow Ultrafiltration. Membranes, 2022, 12, 676.	3.0	6
9	Nanocomposite polymeric membrane a new trend of water and wastewater treatment: A short review. Groundwater for Sustainable Development, 2021, 12, 100533.	4.6	28
10	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
11	Conventional macro- and micromolecules separation. , 2021, , 89-107.		1
12	Why Ag(I) grafted porous carbon matrix prefers alkene over alkane? An inside view from ab-initio study. Microporous and Mesoporous Materials, 2021, 316, 110940.	4.4	6
13	Bioplastic from Renewable Biomass: A Facile Solution for a Greener Environment. Earth Systems and Environment, 2021, 5, 231-251.	6.2	161
14	Transmission of SARS-Cov-2 and other enveloped viruses to the environment through protective gear: a brief review. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 48.	1.3	9
15	Prevalence of SARS-CoV-2 in Communities Through Wastewater Surveillanceâ€"a Potential Approach for Estimation of Disease Burden. Current Pollution Reports, 2021, 7, 160-166.	6.6	29
16	Stability of Film-Forming Dispersions: Affects the Morphology and Optical Properties of Polymeric Films. Polymers, 2021, 13, 1464.	4.5	19
17	Catalytic Membrane Reactors: The Industrial Applications Perspective. Catalysts, 2021, 11, 691.	3.5	27
18	Artificial Intelligence-Based Optimization of Industrial Membrane Processes. Earth Systems and Environment, 2021, 5, 385-398.	6.2	28

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19	A Way to Membrane-Based Environmental Remediation for Heavy Metal Removal. Environments - MDPI, 2021, 8, 52.	3.3	29
20	Where Does Moisture Come From Over the Congo Basin?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006024.	3.0	15
21	On the role of aerosol radiative effect in the wet season onset timing over the Congo rainforest during boreal autumn. Atmospheric Chemistry and Physics, 2021, 21, 12855-12866.	4.9	3
22	Photo-degradation, thermodynamic and kinetic study of carcinogenic dyes via zinc oxide/graphene oxide nanocomposites. Journal of Materials Research and Technology, 2021, 15, 3171-3191.	5.8	24
23	Optimized Functionalization of Industrial Waste for Oil Spill Remediation. Environmental Science and Engineering, 2021, , 459-463.	0.2	0
24	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
25	Fabrication of WO3 based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. International Journal of Hydrogen Energy, 2021, 46, 39058-39066.	7.1	13
26	Advanced descriptors for long-range noncovalent interactions between SARS-CoV-2 spikes and polymer surfaces. Separation and Purification Technology, 2021, , 120125.	7.9	7
27	Bioconversion of lignocellulosic biomass to bioethanol and biobutanol. , 2020, , 67-125.		20
28	Deep Convective Evolution From Shallow Clouds Over the Amazon and Congo Rainforests. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030962.	3.3	10
29	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. Journal of Hazardous Materials Letters, 2020, 1, 100001.	3.6	49
30	Optimized Production of Glucose Syrup and Enzyme Membrane Reactor Using In Situ Product Recovery. Industrial & Engineering Chemistry Research, 2020, 59, 21305-21311.	3.7	6
31	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
32	Study of bio-materials for removal of the oil spill. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	18
33	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. Environmental Science & Technology, 2020, 54, 7754-7757.	10.0	337
34	Characterization of an asymmetric ultrafiltration membrane prepared from TiO2-smectite nanocomposites doped with commercial TiO2 and its application to the treatment of textile wastewater. Euro-Mediterranean Journal for Environmental Integration, 2020, 5, 1.	1.3	4
35	Metals toxic pollutants in the environment: anthropogenic and geological causes and remediation. , 2020, , 109-124.		0
36	A review of emerging trends in membrane science and technology for sustainable water treatment. Journal of Cleaner Production, 2020, 266, 121867.	9.3	175

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37	Utilization of response surface methodology in optimization of de-oiled olive pomace activated biochar production. E3S Web of Conferences, 2020, 148, 02006.	0.5	2
38	Defect Thermodynamics in Nonstoichiometric Alluaudite-Based Polyanionic Materials for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 32856-32868.	8.0	5
39	Comparative analysis of immobilized biocatalyst: study of process variables in trans-esterification reaction. 3 Biotech, 2019, 9, 443.	2.2	4
40	Enzyme Immobilization on Polymer Membranes: A Quantum and Molecular Mechanics Study. Computation, 2019, 7, 56.	2.0	21
41	Cesium Bismuth Iodide Solar Cells from Systematic Molar Ratio Variation of CsI and BiI₃. Inorganic Chemistry, 2019, 58, 12040-12052.	4.0	45
42	Process-intensified waste valorization and environmentally friendly d-limonene extraction. Euro-Mediterranean Journal for Environmental Integration, 2019, 4, 1.	1.3	15
43	Phase evolution in calcium molybdate nanoparticles as a function of synthesis temperature and its electrochemical effect on energy storage. Nanoscale Advances, 2019, 1, 565-580.	4.6	49
44	Mapping the sodium intercalation mechanism, electrochemical properties and structural evolution in non-stoichiometric alluaudite Na_{2+2Î´}Fe_{2â^'Î´}(SO₄)₃ cathode materials. Journal of Materials Chemistry A, 2019, 7, 17446-17455.	10.3	11
45	Limiting Heterovalent B-Site Doping in CsPbI₃ Nanocrystals: Phase and Optical Stability. ACS Energy Letters, 2019, 4, 1364-1369.	17.4	86
46	Zero-Dimensional Lead-Free Hybrid Perovskite-like Material with a Quantum-Well Structure. Chemistry of Materials, 2019, 31, 1941-1945.	6.7	49
47	Emergence of Si₂BN Monolayer as Efficient HER Catalyst under Co-functionalization Influence. ACS Applied Energy Materials, 2019, 2, 8441-8448.	5.1	18
48	Graphene nanoplatelets in geopolymeric systems: A new dimension of nanocomposites. Materials Letters, 2019, 236, 550-553.	2.6	43
49	TiS₂ Monolayer as an Emerging Ultrathin Bifunctional Catalyst: Influence of Defects and Functionalization. ChemPhysChem, 2019, 20, 608-617.	2.1	24
50	Synthesis of chitosan-cellulase nanohybrid and immobilization on alginate beads for hydrolysis of ionic liquid pretreated sugarcane bagasse. Renewable Energy, 2019, 133, 66-76.	8.9	50
51	Renewable Energy-Powered Membrane Systems for Water Desalination. , 2019, , 153-177.		5
52	Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor. Catalysis Today, 2019, 331, 68-77.	4.4	27
53	Synthesis and Optical Properties of Colloidal M₃Bi₂I₉ (M = Cs, Rb) Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 10643-10649.	3.1	95
54	Investigation on Organic Molecule Additive for Moisture Stability and Defect Passivation via Physisorption in CH₃NH₃PbI₃ Based Perovskite. ACS Applied Energy Materials, 2018, 1, 1870-1877.	5.1	37

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55	In pursuit of bifunctional catalytic activity in PdS2 pseudo-monolayer through reaction coordinate mapping. Nano Energy, 2018, 49, 283-289.	16.0	44
56	A review of polymeric membranes and processes for potable water reuse. Progress in Polymer Science, 2018, 81, 209-237.	24.7	483
57	Saline Accelerates Oxime Reaction with Aldehyde and Keto Substrates at Physiological pH. Scientific Reports, 2018, 8, 2193.	3.3	17
58	Biofuels and Bioenergy from Residual Biomasses: When a Waste Becomes a Resource. Advances in Science, Technology and Innovation, 2018, , 1569-1571.	0.4	0
59	Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support. Applied Clay Science, 2018, 155, 20-29.	5.2	25
60	Photocatalytic Membrane Reactor for Sustainable Environmental Remediation. Advances in Science, Technology and Innovation, 2018, , 57-59.	0.4	0
61	Improving Cellulose Structure for Bioconversion: Sugarcane Bagasse Pretreatment Accompanied by Lignin Recovery and Ionic Liquid Recycle. Advances in Science, Technology and Innovation, 2018, , 1155-1156.	0.4	2
62	Defected and Functionalized Germanene-based Nanosensors under Sulfur Comprising Gas Exposure. ACS Sensors, 2018, 3, 867-874.	7.8	53
63	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and Jatropha: A review and case study. Renewable and Sustainable Energy Reviews, 2018, 88, 239-257.	16.4	80
64	Theoretical Evidence behind Bifunctional Catalytic Activity in Pristine and Functionalized Al₂C Monolayers. ChemPhysChem, 2018, 19, 148-152.	2.1	11
65	A combined theoretical and experimental approach of a new ternary metal oxide in molybdate composite for hybrid energy storage capacitors. APL Materials, 2018, 6, .	5.1	26
66	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
67	Cystamine-configured lead halide based 2D hybrid molecular crystals: Synthesis and photoluminescence systematics. APL Materials, 2018, 6, 114204.	5.1	13
68	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. Atmospheric Chemistry and Physics, 2018, 18, 11135-11148.	4.9	20
69	Technological Aspects of Lignocellulose Conversion into Biofuels: Key Challenges and Practical Solutions. , 2018, , 117-154.		1
70	Current computational trends in polyanionic cathode materials for Li and Na batteries. Journal of Physics Condensed Matter, 2018, 30, 283003.	1.8	13
71	Maneuvering the Physical Properties and Spin States To Enhance the Activity of Laâ€“Srâ€“Coâ€“Feâ€“O Perovskite Oxide Nanoparticles in Electrochemical Water Oxidation. ACS Applied Energy Materials, 2018, 1, 3342-3350.	5.1	29
72	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

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73	Molecular and Selfâ€Trapped Excitonic Contributions to the Broadband Luminescence in Diamineâ€Based Lowâ€Dimensional Hybrid Perovskite Systems. Advanced Optical Materials, 2018, 6, 1800751.	7.3	43
74	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO₄ photoanode by Wâ€“Ti codoping. Journal of Materials Chemistry A, 2018, 6, 16965-16974.	10.3	27
75	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. Royal Society Open Science, 2018, 5, 172017.	2.4	60
76	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. 3 Biotech, 2018, 8, 374.	2.2	34
77	Mechanistic Insight into Enhanced Hydrogen Evolution Reaction Activity of Ultrathin Hexagonal Boron Nitride-Modified Pt Electrodes. ACS Catalysis, 2018, 8, 6636-6644.	11.2	63
78	New Concept on Photocatalytic Degradation of Thiophene Derivatives: Experimental and DFT Studies. Journal of Physical Chemistry C, 2018, 122, 15646-15651.	3.1	9
79	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
80	Industrial Water Pollution and Treatment - Can Membranes be a Solution?. Materials Research Foundations, 2018, , 295-351.	0.3	0
81	A comparative study of hydrogen evolution reaction on pseudo-monolayer WS₂ and PtS₂: insights based on the density functional theory. Catalysis Science and Technology, 2017, 7, 687-692.	4.1	51
82	Role of relativity in high-pressure phase transitions of thallium. Scientific Reports, 2017, 7, 42983.	3.3	4
83	Membranes as a tool to support biorefineries: Applications in enzymatic hydrolysis, fermentation and dehydration for bioethanol production. Renewable and Sustainable Energy Reviews, 2017, 74, 873-890.	16.4	71
84	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
85	Optimization of lignin recovery from sugarcane bagasse using ionic liquid aided pretreatment. Cellulose, 2017, 24, 3191-3207.	4.9	63
86	Effect of Transition Metal Cations on Stability Enhancement for Molybdate-Based Hybrid Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 17977-17991.	8.0	82
87	Feedstock Availability, Composition, New Potential Resources for Biohydrogen, Biomethane, and Biobutanol Production via Biotechnological Routes. , 2017, , 261-276.		0
88	Evolution of hydrogen by few-layered black phosphorus under visible illumination. Journal of Materials Chemistry A, 2017, 5, 24874-24879.	10.3	45
89	Mechanistic study of Na-ion diffusion and small polaron formation in KrÃ¶hnkite Na₂Fe(SO₄)₂Â·2H₂O based cathode materials. Journal of Materials Chemistry A, 2017, 5, 21726-21739.	10.3	18
90	Photocatalytic hollow fiber membranes for the degradation of pharmaceutical compounds in wastewater. Journal of Environmental Chemical Engineering, 2017, 5, 5014-5024.	6.7	88

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91	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
92	Nanoporous hollow fiber polyethersulfone membranes for the removal of residual contaminants from treated wastewater effluent: Functional and molecular implications. Separation and Purification Technology, 2017, 189, 20-31.	7.9	25
93	Bromination-induced stability enhancement with a multivalley optical response signature in guanidinium [C(NH₂)₃]⁺-based hybrid perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 18561-18568.	10.3	8
94	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
95	Poor Photovoltaic Performance of Cs₃Bi₂I₉: An Insight through First-Principles Calculations. Journal of Physical Chemistry C, 2017, 121, 17062-17067.	3.1	121
96	Biomimetic membranes: A critical review of recent progress. Desalination, 2017, 420, 403-424.	8.2	100
97	Na_{2.32}Co_{1.84}(SO₄)₃ as a new member of the alluaudite family of high-voltage sodium battery cathodes. Dalton Transactions, 2017, 46, 55-63.	3.3	52
98	Photothermal Membrane Distillation for Seawater Desalination. Advanced Materials, 2017, 29, 1603504.	21.0	422
99	Design and Control of Cooperativity in Spin-Crossover in Metalâ€“Organic Complexes: A Theoretical Overview. Inorganics, 2017, 5, 47.	2.7	30
100	Sensitive and selective detection of copper ions using low cost nitrogen doped carbon quantum dots as a fluorescent sensing plateform. ISSS Journal of Micro and Smart Systems, 2017, 6, 109-117.	2.0	13
101	Immobilized biocatalytic process development and potential application in membrane separation: a review. Critical Reviews in Biotechnology, 2016, 36, 43-58.	9.0	66
102	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
103	Advance membrane separation processes for biorefineries. , 2016, , 3-28.		4
104	Editorial. Ecotoxicology and Environmental Safety, 2016, 134, 287.	6.0	2
105	Rare earth functionalization effect in optical response of ZnO nano clusters. European Physical Journal D, 2016, 70, 1.	1.3	4
106	Poly (sodium-4-styrenesulfonate) assisted ultrafiltration for methylene blue dye removal from simulated wastewater: Optimization using response surface methodology. Journal of Environmental Chemical Engineering, 2016, 4, 2008-2022.	6.7	54
107	Ionothermal Synthesis of High-Voltage Alluaudite Na_{2+2x}Fe_{2-x}(SO₄)₃ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. ACS Applied Materials & Interfaces, 2016, 8, 6982-6991.	8.0	66
108	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. International Journal of Hydrogen Energy, 2016, 41, 14404-14428.	7.1	94

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109	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
110	Synthesis, structural and electrochemical properties of sodium nickel phosphate for energy storage devices. Nanoscale, 2016, 8, 11291-11305.	5.6	80
111	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
112	Time dependent DFT investigation of the optical response in pristine and Gd doped Al2O3. RSC Advances, 2016, 6, 72537-72543.	3.6	1
113	Probing the pseudo-1-D ion diffusion in lithium titanium niobate anode for Li-ion battery. Physical Chemistry Chemical Physics, 2016, 18, 22323-22330.	2.8	21
114	Defect and Substitution-Induced Silicene Sensor to Probe Toxic Gases. Journal of Physical Chemistry C, 2016, 120, 25256-25262.	3.1	81
115	Cationic Effect on Pressure Driven Spin-State Transition and Cooperativity in Hybrid Perovskites. Chemistry of Materials, 2016, 28, 8379-8384.	6.7	15
116	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
117	Rationalizing the Hydrogen and Oxygen Evolution Reaction Activity of Two-Dimensional Hydrogenated Silicene and Germanene. ACS Applied Materials & Interfaces, 2016, 8, 1536-1544.	8.0	69
118	Predicting electrochemical properties and ionic diffusion in Na_{2+2x}Mn_{2â”x}(SO₄)₃: crafting a promising high voltage cathode material. Journal of Materials Chemistry A, 2016, 4, 451-457.	10.3	21
119	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	6.8	302
120	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
121	Improvement in Hydrogen Desorption from Î²â€•and Î³â€MgH₂ upon Transitionâ€Metal Doping. ChemPhysChem, 2015, 16, 2557-2561.	2.1	22
122	Improvement in Hydrogen Desorption from Î²- and Î³-MgH2upon Transition-Metal Doping. ChemPhysChem, 2015, 16, 2481-2481.	2.1	0
123	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
124	Conventional macro- and micromolecules separation. , 2015, , 105-126.		3
125	Treatment of laundry wastewater using polyethersulfone/polyvinylpyrollidone ultrafiltration membranes. Ecotoxicology and Environmental Safety, 2015, 121, 174-179.	6.0	69
126	Substitution induced band structure shape tuning in hybrid perovskites (CH₃NH₃Pb_{1â”x}Sn_xI₃) for efficient solar cell applications. RSC Advances, 2015, 5, 107497-107502.	3.6	44

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127	Response surface-optimized removal of Reactive Red 120 dye from its aqueous solutions using polyethyleneimine enhanced ultrafiltration. Ecotoxicology and Environmental Safety, 2015, 121, 271-278.	6.0	59
128	Photocatalytic degradation of pharmaceutical wastes by alginate supported TiO2 nanoparticles in packed bed photo reactor (PBPR). Ecotoxicology and Environmental Safety, 2015, 121, 263-270.	6.0	104
129	Mapping Structural Changes in Electrode Materials: Application of the Hybrid Eigenvector-Following Density Functional Theory (DFT) Method to Layered Li_{0.5}MnO₂. Chemistry of Materials, 2015, 27, 5550-5561.	6.7	23
130	Na_{2.44}Mn_{1.79}(SO₄)₃: a new member of the alluaudite family of insertion compounds for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 18564-18571.	10.3	99
131	Eggshell: A green adsorbent for heavy metal removal in an MBR system. Ecotoxicology and Environmental Safety, 2015, 121, 57-62.	6.0	54
132	Defect Engineered g-C₃N₄ for Efficient Visible Light Photocatalytic Hydrogen Production. Chemistry of Materials, 2015, 27, 4930-4933.	6.7	401
133	Highly Sensitive and Selective Gas Detection Based on Silicene. Journal of Physical Chemistry C, 2015, 119, 16934-16940.	3.1	174
134	Synthesis and functionality of proteinacious nutraceuticals from casein wheyâ€"A clean and safe route of valorization of dairy waste. Chemical Engineering Research and Design, 2015, 97, 192-207.	5.6	7
135	Lactose hydrolysis by Î²-galactosidase enzyme: optimization using response surface methodology. Ecotoxicology and Environmental Safety, 2015, 121, 244-252.	6.0	49
136	Membrane reactors for dry reforming of methane. , 2015, , 99-144.		3
137	Development of a mathematical model to predict different parameters during pharmaceutical wastewater treatment using TiO2 coated membrane. Ecotoxicology and Environmental Safety, 2015, 121, 193-198.	6.0	24
138	Enzymatic transesterification of waste vegetable oil to produce biodiesel. Ecotoxicology and Environmental Safety, 2015, 121, 229-235.	6.0	66
139	Synthesis, and crystal and electronic structure of sodium metal phosphate for use as a hybrid capacitor in non-aqueous electrolyte. Dalton Transactions, 2015, 44, 20108-20120.	3.3	50
140	Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. Ecotoxicology and Environmental Safety, 2015, 121, 22-30.	6.0	35
141	Editorial. Ecotoxicology and Environmental Safety, 2015, 121, 1-2.	6.0	2
142	Optimization of process parameters during photocatalytic degradation of phenol in UV annular reactor. Desalination and Water Treatment, 2015, 54, 2270-2279.	1.0	7
143	Membrane applications for biogas production andÂpurification processes: an overview on a smart alternative for process intensification. RSC Advances, 2015, 5, 14156-14186.	3.6	15
144	BC₃ Sheet Functionalized with Lithiumâ€Rich Species Emerging as a Reversible Hydrogen Storage Material. ChemPhysChem, 2015, 16, 634-639.	2.1	9

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145	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
146	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
147	Role of a constructed wetland to humify effluent organic matter from a wastewater treatment plant. Desalination and Water Treatment, 2014, 52, 5840-5847.	1.0	3
148	Enhancement of energy storage capacity of Mg functionalized silicene and silicane under external strain. Applied Physics Letters, 2014, 105, .	3.3	29
149	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
150	Revealing an unusual transparent phase of superhard iron tetraboride under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17050-17053.	7.1	23
151	Sequencing batch reactors (SBRs) for BioH2 production: Reactor operation criteria. International Journal of Hydrogen Energy, 2014, 39, 4863-4869.	7.1	12
152	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
153	Experimental analysis, modeling and optimization of chromium (VI) removal from aqueous solutions by polymer-enhanced ultrafiltration. Journal of Membrane Science, 2014, 456, 139-154.	8.2	84
154	Production, purification, characterization, immobilization, and application of Î²â€galactosidase: a review. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 330-348.	1.5	56
155	Kinetic of lactic acid production from sugarcane juice using <scp>Lactobacillus plantarum</scp> NCIM 2912. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 374-381.	1.5	7
156	A possible mechanism for the emergence of an additional band gap due to a Tiâ€“Oâ€“C bond in the TiO₂â€“graphene hybrid system for enhanced photodegradation of methylene blue under visible light. RSC Advances, 2014, 4, 59890-59901.	3.6	143
157	Application of ANFIS model to optimise the photocatalytic degradation of chlorhexidine digluconate. RSC Advances, 2014, 4, 21141.	3.6	15
158	Bioadsorbtion of industrial dyes from aqueous solution onto water hyacinth (Eichornia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td 2014, 52, 1484-1494.	1.0	19
159	The effects of thermally stable titanium silicon oxide nanoparticles on structure and performance of cellulose acetate ultrafiltration membranes. Separation and Purification Technology, 2014, 133, 55-68.	7.9	100
160	Bioreactor and Enzymatic Reactions in Bioremediation. , 2014, , 455-495.		7
161	Remediation of Antiseptic Components in Wastewater by Photocatalysis Using TiO₂ Nanoparticles. Industrial & Engineering Chemistry Research, 2014, 53, 3012-3020.	3.7	58
162	Metalâ€Functionalized Silicene for Efficient Hydrogen Storage. ChemPhysChem, 2013, 14, 3463-3466.	2.1	45

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163	Biocatalytic membrane reactors: principles, preparation and biotechnological, pharmaceutical and medical applications. , 2013, , 846-887.		6
164	Functionalization of hydrogenated silicene with alkali and alkaline earth metals for efficient hydrogen storage. Physical Chemistry Chemical Physics, 2013, 15, 18900.	2.8	45
165	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
166	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. Desalination and Water Treatment, 2013, 51, 6194-6200.	1.0	58
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