

Sudip Chakraborty

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186
papers

6,627
citations

43
h-index

75
g-index

202
ext. papers

8,032
ext. citations

6
avg, IF

6.28
L-index

#	Paper	IF	Citations
186	Photocatalytic Degradation of Textile Dye on Blended Cellulose Acetate Membranes.. <i>Polymers</i> , 2022 , 14,	4.5	3
185	Preparation of foamed and unfoamed geopolymer/NaX zeolite/activated carbon composites for CO2 adsorption. <i>Journal of Cleaner Production</i> , 2022 , 330, 129843	10.3	4
184	Synthesis and Characterization of Blended Cellulose Acetate Membranes.. <i>Polymers</i> , 2021 , 14,	4.5	4
183	Advanced descriptors for long-range noncovalent interactions between SARS-CoV-2 spikes and polymer surfaces. <i>Separation and Purification Technology</i> , 2021 , 120125	8.3	1
182	Fabrication of WO3 based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
181	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	5.3	1
180	Bioplastic from Renewable Biomass: A Facile Solution for a Greener Environment. <i>Earth Systems and Environment</i> , 2021 , 5, 231	7.5	47
179	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	1.7	7
178	Prevalence of SARS-CoV-2 in Communities Through Wastewater Surveillance-a Potential Approach for Estimation of Disease Burden. <i>Current Pollution Reports</i> , 2021 , 7, 1-7	7.6	16
177	Stability of Film-Forming Dispersions: Affects the Morphology and Optical Properties of Polymeric Films. <i>Polymers</i> , 2021 , 13,	4.5	8
176	Catalytic Membrane Reactors: The Industrial Applications Perspective. <i>Catalysts</i> , 2021 , 11, 691	4	8
175	Artificial Intelligence-Based Optimization of Industrial Membrane Processes. <i>Earth Systems and Environment</i> , 2021 , 5, 385	7.5	8
174	A Way to Membrane-Based Environmental Remediation for Heavy Metal Removal. <i>Environments - MDPI</i> , 2021 , 8, 52	3.2	8
173	Nanocomposite polymeric membrane a new trend of water and wastewater treatment: A short review. <i>Groundwater for Sustainable Development</i> , 2021 , 12, 100533	6	14
172	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 220-256	5.5	67
171	Conventional macro- and micromolecules separation 2021 , 89-107		0
170	Where Does Moisture Come From Over the Congo Basin?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006024	3.7	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	6.8	0
168	Photo-degradation, Thermodynamic and Kinetic study of Carcinogenic Dyes via Zinc Oxide/Graphene oxide Nanocomposites. <i>Journal of Materials Research and Technology</i> , 2021 ,	5.5	2
167	Optimized Functionalization of Industrial Waste for Oil Spill Remediation. <i>Environmental Science and Engineering</i> , 2021 , 459-463	0.2	
166	Local electrocatalytic activity of PtRu supported on nitrogen-doped carbon nanotubes towards methanol oxidation by scanning electrochemical microscopy. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21291-21301	13	3
165	Study of bio-materials for removal of the oil spill. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	7
164	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	1.7	1
163	Metals toxic pollutants in the environment: anthropogenic and geological causes and remediation 2020 , 109-124		
162	A review of emerging trends in membrane science and technology for sustainable water treatment. <i>Journal of Cleaner Production</i> , 2020 , 266, 121867	10.3	80
161	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	1
160	Bioconversion of lignocellulosic biomass to bioethanol and biobutanol 2020 , 67-125		14
159	Deep Convective Evolution From Shallow Clouds Over the Amazon and Congo Rainforests. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030962	4.4	6
158	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	3.3	23
157	Optimized Production of Glucose Syrup and Enzyme Membrane Reactor Using In Situ Product Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21305-21311	3.9	1
156	Removal of Reactive Red 120 from Model Textile Waste Solution by Micellar-Enhanced Ultrafiltration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 804, 012053	0.4	
155	Cesium Bismuth Iodide Solar Cells from Systematic Molar Ratio Variation of CsI and BiI ₃ . <i>Inorganic Chemistry</i> , 2019 , 58, 12040-12052	5.1	23
154	Process-intensified waste valorization and environmentally friendly d-limonene extraction. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2019 , 4, 1	1.7	10
153	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	5.1	24
152	Mapping the sodium intercalation mechanism, electrochemical properties and structural evolution in non-stoichiometric alluaudite Na ₂ +2Fe ₂ (SO ₄) ₃ cathode materials. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17446-17455	13	4

151	Limiting Heterovalent B-Site Doping in CsPbI ₃ Nanocrystals: Phase and Optical Stability. <i>ACS Energy Letters</i> , 2019 , 4, 1364-1369	20.1	53
150	Zero-Dimensional Lead-Free Hybrid Perovskite-like Material with a Quantum-Well Structure. <i>Chemistry of Materials</i> , 2019 , 31, 1941-1945	9.6	28
149	Defect Thermodynamics in Nonstoichiometric Alluaudite-Based Polyanionic Materials for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32856-32868	9.5	2
148	Comparative analysis of immobilized biocatalyst: study of process variables in trans-esterification reaction. <i>3 Biotech</i> , 2019 , 9, 443	2.8	3
147	Enzyme Immobilization on Polymer Membranes: A Quantum and Molecular Mechanics Study. <i>Computation</i> , 2019 , 7, 56	2.2	9
146	Emergence of Si ₂ BN Monolayer as Efficient HER Catalyst under Co-functionalization Influence. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8441-8448	6.1	9
145	Graphene nanoplatelets in geopolymeric systems: A new dimension of nanocomposites. <i>Materials Letters</i> , 2019 , 236, 550-553	3.3	26
144	TiS Monolayer as an Emerging Ultrathin Bifunctional Catalyst: Influence of Defects and Functionalization. <i>ChemPhysChem</i> , 2019 , 20, 608-617	3.2	14
143	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	8.1	35
142	Renewable Energy-Powered Membrane Systems for Water Desalination 2019 , 153-177		2
141	Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor. <i>Catalysis Today</i> , 2019 , 331, 68-77	5.3	21
140	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	3.8	72
139	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	6.1	31
138	In pursuit of bifunctional catalytic activity in PdS ₂ pseudo-monolayer through reaction coordinate mapping. <i>Nano Energy</i> , 2018 , 49, 283-289	17.1	28
137	Saline Accelerates Oxime Reaction with Aldehyde and Keto Substrates at Physiological pH. <i>Scientific Reports</i> , 2018 , 8, 2193	4.9	15
136	Biofuels and Bioenergy from Residual Biomasses: When a Waste Becomes a Resource. <i>Advances in Science, Technology and Innovation</i> , 2018 , 1569-1571	0.3	
135	Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support. <i>Applied Clay Science</i> , 2018 , 155, 20-29	5.2	17
134	Photocatalytic Membrane Reactor for Sustainable Environmental Remediation. <i>Advances in Science, Technology and Innovation</i> , 2018 , 57-59	0.3	

133	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	0.3	1
132	Defected and Functionalized Germanene-based Nanosensors under Sulfur Comprising Gas Exposure. <i>ACS Sensors</i> , 2018 , 3, 867-874	9.2	33
131	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and Jatropa: A review and case study. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 88, 239-257	16.2	59
130	Theoretical Evidence behind Bifunctional Catalytic Activity in Pristine and Functionalized Al C Monolayers. <i>ChemPhysChem</i> , 2018 , 19, 148-152	3.2	8
129	Maneuvering the Physical Properties and Spin States To Enhance the Activity of LaBr ₃ CoFeO Perovskite Oxide Nanoparticles in Electrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3342-3350	6.1	19
128	Scrupulous Probing of Bifunctional Catalytic Activity of Borophene Monolayer: Mapping Reaction Coordinate with Charge Transfer. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3571-3576	6.1	26
127	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	8.1	31
126	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W ^{VI} codoping. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16965-16974	13	22
125	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. <i>Royal Society Open Science</i> , 2018 , 5, 172017	3.3	35
124	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. <i>3 Biotech</i> , 2018 , 8, 374	2.8	23
123	Mechanistic Insight into Enhanced Hydrogen Evolution Reaction Activity of Ultrathin Hexagonal Boron Nitride-Modified Pt Electrodes. <i>ACS Catalysis</i> , 2018 , 8, 6636-6644	13.1	37
122	New Concept on Photocatalytic Degradation of Thiophene Derivatives: Experimental and DFT Studies. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15646-15651	3.8	4
121	Tensile and Surface Mechanical Properties of Polyethersulphone (PES) and Polyvinylidene Fluoride (PVDF) Membranes. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , 2018 , 48, 85-99	5.8	18
120	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, 047701	5.7	15
119	The Influence of Aerosols and Meteorological Conditions on the Total Rain Volume of the Mesoscale Convective Systems Over Tropical Continents. <i>Geophysical Research Letters</i> , 2018 , 45, 13,099	4.9	10
118	Cystamine-configured lead halide based 2D hybrid molecular crystals: Synthesis and photoluminescence systematics. <i>APL Materials</i> , 2018 , 6, 114204	5.7	12
117	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	6.8	13
116	Technological Aspects of Lignocellulose Conversion into Biofuels: Key Challenges and Practical Solutions 2018 , 117-154		

115	Current computational trends in polyanionic cathode materials for Li and Na batteries. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 283003	1.8	8
114	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	5.5	42
113	Role of relativity in high-pressure phase transitions of thallium. <i>Scientific Reports</i> , 2017 , 7, 42983	4.9	3
112	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	16.2	55
111	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 837-845	20.1	142
110	Optimization of lignin recovery from sugarcane bagasse using ionic liquid aided pretreatment. <i>Cellulose</i> , 2017 , 24, 3191-3207	5.5	46
109	Effect of Transition Metal Cations on Stability Enhancement for Molybdate-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17977-17991	9.5	61
108	Feedstock Availability, Composition, New Potential Resources for Biohydrogen, Biomethane, and Biobutanol Production via Biotechnological Routes 2017 , 261-276		
107	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24874-24879	13	37
106	Design and Control of Cooperativity in Spin-Crossover in MetalOrganic Complexes: A Theoretical Overview. <i>Inorganics</i> , 2017 , 5, 47	2.9	20
105	Sensitive and selective detection of copper ions using low cost nitrogen doped carbon quantum dots as a fluorescent sensing platform. <i>ISSS Journal of Micro and Smart Systems</i> , 2017 , 6, 109-117	0.9	13
104	Mechanistic study of Na-ion diffusion and small polaron formation in K ⁺ inkite Na ₂ Fe(SO ₄) ₂ ·2H ₂ O based cathode materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21726-21739	13	15
103	Photocatalytic hollow fiber membranes for the degradation of pharmaceutical compounds in wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5014-5024	6.8	63
102	Rainforest-initiated wet season onset over the southern Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8481-8486	11.5	130
101	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	8.3	18
100	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	13	8
99	Microwave-Assisted Modified Polyimide Synthesis: A Facile Route to the Enhancement of Visible-Light-Induced Photocatalytic Performance for Dye Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6817-6826	8.3	20
98	Poor Photovoltaic Performance of Cs ₃ Bi ₂ I ₉ : An Insight through First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17062-17067	3.8	81

97	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , 2017 , 420, 403-424	10.3	69
96	Photothermal Membrane Distillation for Seawater Desalination. <i>Advanced Materials</i> , 2017 , 29, 1603504	24	268
95	Immobilized biocatalytic process development and potential application in membrane separation: a review. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 43-58	9.4	51
94	A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , 2016 , 81, 209-237	29.6	304
93	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	3.7	1
92	Probing the pseudo-1-D ion diffusion in lithium titanium niobate anode for Li-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22323-30	3.6	14
91	Defect and Substitution-Induced Silicene Sensor to Probe Toxic Gases. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25256-25262	3.8	63
90	Cationic Effect on Pressure Driven Spin-State Transition and Cooperativity in Hybrid Perovskites. <i>Chemistry of Materials</i> , 2016 , 28, 8379-8384	9.6	13
89	Relative influence of meteorological conditions and aerosols on the lifetime of mesoscale convective systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7426-31	11.5	25
88	Rationalizing the Hydrogen and Oxygen Evolution Reaction Activity of Two-Dimensional Hydrogenated Silicene and Germanene. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1536-44	9.5	56
87	Predicting electrochemical properties and ionic diffusion in Na ₂ +2xMn ₂ (SO ₄) ₃ : crafting a promising high voltage cathode material. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 451-457	13	18
86	NaCo(SO) as a new member of the alluaudite family of high-voltage sodium battery cathodes. <i>Dalton Transactions</i> , 2016 , 46, 55-63	4.3	39
85	A Clean-Green Synthesis of Platinum Nanoparticles Utilizing a Pernicious Weed Lantana (Lantana Camara). <i>American Journal of Engineering and Applied Sciences</i> , 2016 , 9, 84-90	0.4	17
84	Advance membrane separation processes for biorefineries 2016 , 3-28		2
83	Rare earth functionalization effect in optical response of ZnO nano clusters. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	4
82	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	6.8	37
81	Ionothermal Synthesis of High-Voltage Alluaudite Na ₂ +2xFe ₂ -x(SO ₄) ₃ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6982-91	9.5	52
80	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	6.7	74

79	Formulation of a 3D conjugated multiphase transport model to predict drying process behavior of irregular-shaped vegetables. <i>Journal of Food Engineering</i> , 2016 , 176, 36-55	6	14
78	Synthesis, structural and electrochemical properties of sodium nickel phosphate for energy storage devices. <i>Nanoscale</i> , 2016 , 8, 11291-305	7.7	61
77	High pressure-induced distortion in face-centered cubic phase of thallium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11143-11147	11.5	8
76	Photocatalytic degradation of pharmaceutical wastes by alginate supported TiO ₂ nanoparticles in packed bed photo reactor (PBPR). <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 263-70	7	76
75	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	9.6	13
74	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	13	82
73	Eggshell: A green adsorbent for heavy metal removal in an MBR system. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 57-62	7	42
72	Defect Engineered g-C ₃ N ₄ for Efficient Visible Light Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2015 , 27, 4930-4933	9.6	308
71	Highly Sensitive and Selective Gas Detection Based on Silicene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16934-16940	3.8	131
70	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	5.5	6
69	Lactose hydrolysis by β -galactosidase enzyme: optimization using response surface methodology. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 244-52	7	42
68	Membrane reactors for dry reforming of methane 2015 , 99-144		3
67	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, 193-8	7	21
66	Enzymatic transesterification of waste vegetable oil to produce biodiesel. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 229-35	7	58
65	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, 20108-20	4.3	38
64	Biosorption of lead ions (Pb ²⁺) from simulated wastewater using residual biomass of microalgae. <i>Desalination and Water Treatment</i> , 2015 , 1-11		7
63	Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 22-30	7	21
62	Optimization of process parameters during photocatalytic degradation of phenol in UV annular reactor. <i>Desalination and Water Treatment</i> , 2015 , 54, 2270-2279		3

61	Membrane applications for biogas production and purification processes: an overview on a smart alternative for process intensification. <i>RSC Advances</i> , 2015 , 5, 14156-14186	3.7	13
60	BC(3) sheet functionalized with lithium-rich species emerging as a reversible hydrogen storage material. <i>ChemPhysChem</i> , 2015 , 16, 634-9	3.2	8
59	Studies on the separation of proteins and lactose from casein whey by cross-flow ultrafiltration. <i>Desalination and Water Treatment</i> , 2015 , 54, 481-501		14
58	Remediation of textile effluents by membrane based treatment techniques: a state of the art review. <i>Journal of Environmental Management</i> , 2015 , 147, 55-72	7.9	293
57	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. <i>ChemSusChem</i> , 2015 , 8, 2789-825	8.3	236
56	Relationships between convective structure and transport of aerosols to the upper troposphere deduced from satellite observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6515-6536	4.4	9
55	Improvement in hydrogen desorption from β and γ -MgH ₂ upon transition-metal doping. <i>ChemPhysChem</i> , 2015 , 16, 2557-61	3.2	15
54	Improvement in Hydrogen Desorption from β and γ -MgH ₂ upon Transition-Metal Doping. <i>ChemPhysChem</i> , 2015 , 16, 2481-2481	3.2	
53	Industrial Waste-an Economical Approach for Adsorption of Heavy Metals from Ground Water. <i>American Journal of Engineering and Applied Sciences</i> , 2015 , 8, 48-56	0.4	5
52	Conventional macro- and micromolecules separation 2015 , 105-126		2
51	Treatment of laundry wastewater using polyethersulfone/polyvinylpyrrolidone ultrafiltration membranes. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 121, 174-9	7	53
50	Substitution induced band structure shape tuning in hybrid perovskites (CH ₃ NH ₃ Pb _{1-x} Sn _x I ₃) for efficient solar cell applications. <i>RSC Advances</i> , 2015 , 5, 107497-107502	3.7	37
49	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, 271-8	7	53
48	Developing a sustainable water resource management strategy for a fluoride-affected area: a contingent valuation approach. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 341-349	4.3	14
47	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	9.6	63
46	Production, purification, characterization, immobilization, and application of β -galactosidase: a review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 330-348	1.3	46
45	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	1.3	6
44	A possible mechanism for the emergence of an additional band gap due to a TiO ₂ bond in the TiO ₂ /graphene hybrid system for enhanced photodegradation of methylene blue under visible light. <i>RSC Advances</i> , 2014 , 4, 59890-59901	3.7	113

43	Application of ANFIS model to optimise the photocatalytic degradation of chlorhexidine digluconate. <i>RSC Advances</i> , 2014 , 4, 21141	3.7	11
42	Bioadsorption of industrial dyes from aqueous solution onto water hyacinth (<i>Eichornia crassipes</i>): equilibrium, kinetic, and sorption mechanism study. <i>Desalination and Water Treatment</i> , 2014 , 52, 1484-1494		12
41	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	8.3	76
40	Bioreactor and Enzymatic Reactions in Bioremediation 2014 , 455-495		5
39	Remediation of Antiseptic Components in Wastewater by Photocatalysis Using TiO ₂ Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3012-3020	3.9	48
38	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		3
37	Enhancement of energy storage capacity of Mg functionalized silicene and silicane under external strain. <i>Applied Physics Letters</i> , 2014 , 105, 123903	3.4	26
36	Electronic density-of-states of amorphous vanadium pentoxide films: Electrochemical data and density functional theory calculations. <i>Journal of Applied Physics</i> , 2014 , 115, 183701	2.5	14
35	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, 17050-3	11.5	20
34	Sequencing batch reactors (SBRs) for BioH ₂ production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4863-4869	6.7	10
33	Metal-functionalized silicene for efficient hydrogen storage. <i>ChemPhysChem</i> , 2013 , 14, 3463-6	3.2	33
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