## **Sudip Chakraborty**

## List of Publications by Citations

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186 6,627 43 75 g-index

202 8,032 6 6.28 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
186	Defect Engineered g-C3N4 for Efficient Visible Light Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4930-4933	9.6	308
185	A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , <b>2016</b> , 81, 209-237	29.6	304
184	Remediation of textile effluents by membrane based treatment techniques: a state of the art review. <i>Journal of Environmental Management</i> , <b>2015</b> , 147, 55-72	7.9	293
183	Increased dry-season length over southern Amazonia in recent decades and its implication for future climate projection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18110-5	11.5	286
182	Photothermal Membrane Distillation for Seawater Desalination. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603504	24	268
181	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. <i>ChemSusChem</i> , <b>2015</b> , 8, 2789-825	8.3	236
180	Nanofiltration of textile plant effluent for color removal and reduction in COD. <i>Separation and Purification Technology</i> , <b>2003</b> , 31, 141-151	8.3	236
179	Pt nanoparticle-based highly sensitive platform for the enzyme-free amperometric sensing of H2O2. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 3264-8	11.8	156
178	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 837-845	20.1	142
177	Highly Sensitive and Selective Gas Detection Based on Silicene. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16934-16940	3.8	131
176	Rainforest-initiated wet season onset over the southern Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 8481-8486	11.5	130
175	A possible mechanism for the emergence of an additional band gap due to a TiDII bond in the TiO2Igraphene hybrid system for enhanced photodegradation of methylene blue under visible light. RSC Advances, 2014, 4, 59890-59901	3.7	113
174	Na2.44Mn1.79(SO4)3: a new member of the alluaudite family of insertion compounds for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18564-18571	13	82
173	Poor Photovoltaic Performance of Cs3Bi2I9: An Insight through First-Principles Calculations. Journal of Physical Chemistry C, <b>2017</b> , 121, 17062-17067	3.8	81
172	A review of emerging trends in membrane science and technology for sustainable water treatment. <i>Journal of Cleaner Production</i> , <b>2020</b> , 266, 121867	10.3	80
171	Photocatalytic degradation of pharmaceutical wastes by alginate supported TiO2 nanoparticles in packed bed photo reactor (PBPR). <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 263-70	7	76
170	The effects of thermally stable titanium silicon oxide nanoparticles on structure and performance of cellulose acetate ultrafiltration membranes. <i>Separation and Purification Technology</i> , <b>2014</b> , 133, 55-68	8.3	76

## (2016-2016)

169	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 14404-14428	6.7	74
168	Synthesis and Optical Properties of Colloidal M3Bi2I9 (M = Cs, Rb) Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10643-10649	3.8	72
167	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , <b>2017</b> , 420, 403-424	10.3	69
166	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 146, 220-256	5.5	67
165	Defect and Substitution-Induced Silicene Sensor to Probe Toxic Gases. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25256-25262	3.8	63
164	Experimental analysis, modeling and optimization of chromium (VI) removal from aqueous solutions by polymer-enhanced ultrafiltration. <i>Journal of Membrane Science</i> , <b>2014</b> , 456, 139-154	9.6	63
163	Photocatalytic hollow fiber membranes for the degradation of pharmaceutical compounds in wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 5014-5024	6.8	63
162	Purification of lactic acid from microfiltrate fermentation broth by cross-flow nanofiltration. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 69, 130-137	4.2	63
161	Effect of Transition Metal Cations on Stability Enhancement for Molybdate-Based Hybrid Supercapacitor. <i>ACS Applied Materials &amp; Supercapacitor</i> , 9, 17977-17991	9.5	61
160	Synthesis, structural and electrochemical properties of sodium nickel phosphate for energy storage devices. <i>Nanoscale</i> , <b>2016</b> , 8, 11291-305	7.7	61
159	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and Jatropha: A review and case study. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 88, 239-257	16.2	59
158	Enzymatic transesterification of waste vegetable oil to produce biodiesel. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 229-35	7	58
157	Rationalizing the Hydrogen and Oxygen Evolution Reaction Activity of Two-Dimensional Hydrogenated Silicene and Germanene. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discourse)</i> 1536-44	9.5	56
156	Membranes as a tool to support biorefineries: Applications in enzymatic hydrolysis, fermentation and dehydration for bioethanol production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 873-8	9 <del>1</del> 6.2	55
155	Limiting Heterovalent B-Site Doping in CsPbI3 Nanocrystals: Phase and Optical Stability. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1364-1369	20.1	53
154	Treatment of laundry wastewater using polyethersulfone/polyvinylpyrollidone ultrafiltration membranes. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 174-9	7	53
153	Response surface-optimized removal of Reactive Red 120 dye from its aqueous solutions using polyethyleneimine enhanced ultrafiltration. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 271-8	7	53
152	Ionothermal Synthesis of High-Voltage Alluaudite Na2+2xFe2-x(SO4)3 Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. <i>ACS Applied Materials &amp; ACS APPLIED &amp; ACS APPL</i>	9.5	52

151	Immobilized biocatalytic process development and potential application in membrane separation: a review. <i>Critical Reviews in Biotechnology</i> , <b>2016</b> , 36, 43-58	9.4	51
150	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> , <b>2013</b> , 51, 6194-6200		50
149	Remediation of Antiseptic Components in Wastewater by Photocatalysis Using TiO2Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 3012-3020	3.9	48
148	Electrocatalytic performance of carbon nanotube-supported palladium particles in the oxidation of formic acid and the reduction of oxygen. <i>Carbon</i> , <b>2010</b> , 48, 3242-3249	10.4	47
147	Bioplastic from Renewable Biomass: A Facile Solution for a Greener Environment. <i>Earth Systems and Environment</i> , <b>2021</b> , 5, 231	7.5	47
146	Optimization of lignin recovery from sugarcane bagasse using ionic liquid aided pretreatment. <i>Cellulose</i> , <b>2017</b> , 24, 3191-3207	5.5	46
145	Production, purification, characterization, immobilization, and application of Balactosidase: a review. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2014</b> , 9, 330-348	1.3	46
144	A comparative study of hydrogen evolution reaction on pseudo-monolayer WS2 and PtS2: insights based on the density functional theory. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 687-692	5.5	42
143	Eggshell: A green adsorbent for heavy metal removal in an MBR system. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 57-62	7	42
142	Lactose hydrolysis by Egalactosidase enzyme: optimization using response surface methodology. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 244-52	7	42
141	An interoperable context sensitive model of trust. <i>Journal of Intelligent Information Systems</i> , <b>2009</b> , 32, 75-104	2.1	41
140	NaCo(SO) as a new member of the alluaudite family of high-voltage sodium battery cathodes. <i>Dalton Transactions</i> , <b>2016</b> , 46, 55-63	4.3	39
139	Synthesis, and crystal and electronic structure of sodium metal phosphate for use as a hybrid capacitor in non-aqueous electrolyte. <i>Dalton Transactions</i> , <b>2015</b> , 44, 20108-20	4.3	38
138	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24874-24879	13	37
137	Mechanistic Insight into Enhanced Hydrogen Evolution Reaction Activity of Ultrathin Hexagonal Boron Nitride-Modified Pt Electrodes. <i>ACS Catalysis</i> , <b>2018</b> , 8, 6636-6644	13.1	37
136	Substitution induced band structure shape tuning in hybrid perovskites (CH3NH3Pb1\(\mathbb{R}\)SnxI3) for efficient solar cell applications. <i>RSC Advances</i> , <b>2015</b> , 5, 107497-107502	3.7	37
135	A Vector Model of Trust for Developing Trustworthy Systems. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 260-275	0.9	37
134	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> , <b>2016</b> , 4, 2008-2022	6.8	37

133	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 172017	3.3	35	
132	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> , <b>2012</b> , 46, 574-583	5.3	35	
131	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> , <b>2007</b> , 111, 13626-31	3.4	35	
130	Synthesis of chitosan-cellulase nanohybrid and immobilization on alginate beads for hydrolysis of ionic liquid pretreated sugarcane bagasse. <i>Renewable Energy</i> , <b>2019</b> , 133, 66-76	8.1	35	
129	Functionalization of hydrogenated silicene with alkali and alkaline earth metals for efficient hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 18900-5	3.6	34	
128	Defected and Functionalized Germanene-based Nanosensors under Sulfur Comprising Gas Exposure. <i>ACS Sensors</i> , <b>2018</b> , 3, 867-874	9.2	33	
127	Metal-functionalized silicene for efficient hydrogen storage. <i>ChemPhysChem</i> , <b>2013</b> , 14, 3463-6	3.2	33	
126	Carbon nanotube supported platinum nanoparticles for the voltammetric sensing of hydrazine. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 222-227	8.5	33	
125	Investigation on Organic Molecule Additive for Moisture Stability and Defect Passivation via Physisorption in CH3NH3PbI3 Based Perovskite. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1870-1877	6.1	31	
124	Molecular and Self-Trapped Excitonic Contributions to the Broadband Luminescence in Diamine-Based Low-Dimensional Hybrid Perovskite Systems. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800	7 <b>8</b> 1 <sup>1</sup>	31	
123	Biomass to biofuel: a review on production technology. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2012</b> , 7, S254-S262	1.3	31	
122	Zero-Dimensional Lead-Free Hybrid Perovskite-like Material with a Quantum-Well Structure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1941-1945	9.6	28	
121	In pursuit of bifunctional catalytic activity in PdS2 pseudo-monolayer through reaction coordinate mapping. <i>Nano Energy</i> , <b>2018</b> , 49, 283-289	17.1	28	
120	Scrupulous Probing of Bifunctional Catalytic Activity of Borophene Monolayer: Mapping Reaction Coordinate with Charge Transfer. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3571-3576	6.1	26	
119	Enhancement of energy storage capacity of Mg functionalized silicene and silicane under external strain. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 123903	3.4	26	
118	Graphene nanoplatelets in geopolymeric systems: A new dimension of nanocomposites. <i>Materials Letters</i> , <b>2019</b> , 236, 550-553	3.3	26	
117	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> , <b>2016</b> , 113, 7426-31	11.5	25	
116	Phase evolution in calcium molybdate nanoparticles as a function of synthesis temperature and its electrochemical effect on energy storage. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 565-580	5.1	24	

115	Correlation between the dynamics of hydrogen bonds and the local density reorganization in the protein hydration layer. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7626-30	3.4	24	
114	Cesium Bismuth Iodide Solar Cells from Systematic Molar Ratio Variation of CsI and Bil. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12040-12052	5.1	23	
113	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. <i>3 Biotech</i> , <b>2018</b> , 8, 374	2.8	23	
112	Arsenic Separation by a Membrane-Integrated Hybrid Treatment System: Modeling, Simulation, and Techno-Economic Evaluation. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 1091-1101	2.5	23	
111	Mechanism and control of formation of porous silicon onp-type Si. <i>Bulletin of Materials Science</i> , <b>1998</b> , 21, 195-201	1.7	23	
110	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment <i>Journal of Hazardous Materials Letters</i> , <b>2020</b> , 1, 100001	3.3	23	
109	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO4 photoanode by WIIi codoping. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16965-16974	13	22	
108	Synthesis of CdSe nanocrystals in a noncoordinating solvent: effect of reaction temperature on size and optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 1965-8	1.3	22	
107	Development of a mathematical model to predict different parameters during pharmaceutical wastewater treatment using TiO2 coated membrane. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 193-8	7	21	
106	Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 121, 22-30	7	21	
105	Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor. <i>Catalysis Today</i> , <b>2019</b> , 331, 68-77	5.3	21	
104	Design and Control of Cooperativity in Spin-Crossover in Metal (Drganic Complexes: A Theoretical Overview. <i>Inorganics</i> , <b>2017</b> , 5, 47	2.9	20	
103	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> , <b>2017</b> , 5, 6817-6826	8.3	20	
102	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, 17050-3	11.5	20	
101	Maneuvering the Physical Properties and Spin States To Enhance the Activity of LaBrtoffet Perovskite Oxide Nanoparticles in Electrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3342-3350	6.1	19	
100	Predicting electrochemical properties and ionic diffusion in Na2+2xMn2\(\mathbb{R}\)(SO4)3: crafting a promising high voltage cathode material. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 451-457	13	18	
99	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> , <b>2017</b> , 189, 20-31	8.3	18	
98	Tensile and Surface Mechanical Properties of Polyethersulphone (PES) and Polyvinylidene Fluoride (PVDF) Membranes. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , <b>2018</b> , 48, 85-99	5.8	18	

## (2015-2018)

97	Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support. <i>Applied Clay Science</i> , <b>2018</b> , 155, 20-29	5.2	17	
96	A Clean-Green Synthesis of Platinum Nanoparticles Utilizing a Pernicious Weed Lantana (Lantana Camara). <i>American Journal of Engineering and Applied Sciences</i> , <b>2016</b> , 9, 84-90	0.4	17	
95	Dynamics of water in the hydration layer of a partially unfolded structure of the protein HP-36. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 6500-7	3.4	16	
94	Prevalence of SARS-CoV-2 in Communities Through Wastewater Surveillance-a Potential Approach for Estimation of Disease Burden. <i>Current Pollution Reports</i> , <b>2021</b> , 7, 1-7	7.6	16	
93	Saline Accelerates Oxime Reaction with Aldehyde and Keto Substrates at Physiological pH. <i>Scientific Reports</i> , <b>2018</b> , 8, 2193	4.9	15	
92	Mechanistic study of Na-ion diffusion and small polaron formation in KrEnkite Na2Fe(SO4)2I2H2O based cathode materials. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21726-21739	13	15	
91	Improvement in hydrogen desorption from 🛭 and EMgH2 upon transition-metal doping. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2557-61	3.2	15	
90	A combined theoretical and experimental approach of a new ternary metal oxide in molybdate composite for hybrid energy storage capacitors. <i>APL Materials</i> , <b>2018</b> , 6, 047701	5.7	15	
89	Studies on the separation of proteins and lactose from casein whey by cross-flow ultrafiltration. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 481-501		14	
88	Probing the pseudo-1-D ion diffusion in lithium titanium niobate anode for Li-ion battery. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22323-30	3.6	14	
87	Developing a sustainable water resource management strategy for a fluoride-affected area: a contingent valuation approach. <i>Clean Technologies and Environmental Policy</i> , <b>2014</b> , 16, 341-349	4.3	14	
86	Electronic density-of-states of amorphous vanadium pentoxide films: Electrochemical data and density functional theory calculations. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 183701	2.5	14	
85	Conductivity Modulation of Porous Silicon by Formation Parameters. <i>Physica Status Solidi A</i> , <b>2002</b> , 191, 535-547		14	
84	Bioconversion of lignocellulosic biomass to bioethanol and biobutanol <b>2020</b> , 67-125		14	
83	Formulation of a 3D conjugated multiphase transport model to predict drying process behavior of irregular-shaped vegetables. <i>Journal of Food Engineering</i> , <b>2016</b> , 176, 36-55	6	14	
82	TiS Monolayer as an Emerging Ultrathin Bifunctional Catalyst: Influence of Defects and Functionalization. <i>ChemPhysChem</i> , <b>2019</b> , 20, 608-617	3.2	14	
81	Nanocomposite polymeric membrane a new trend of water and wastewater treatment: A short review. <i>Groundwater for Sustainable Development</i> , <b>2021</b> , 12, 100533	6	14	
80	Mapping Structural Changes in Electrode Materials: Application of the Hybrid Eigenvector-Following Density Functional Theory (DFT) Method to Layered Li0.5MnO2. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5550-5561	9.6	13	

79	Membrane applications for biogas production and purification processes: an overview on a smart alternative for process intensification. <i>RSC Advances</i> , <b>2015</b> , 5, 14156-14186	3.7	13	
78	Sensitive and selective detection of copper ions using low cost nitrogen doped carbon quantum dots as a fluorescent sensing plateform. <i>ISSS Journal of Micro and Smart Systems</i> , <b>2017</b> , 6, 109-117	0.9	13	
77	Cationic Effect on Pressure Driven Spin-State Transition and Cooperativity in Hybrid Perovskites. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8379-8384	9.6	13	
76	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> , <b>2018</b> , 18, 11135	5- <sup>9-8</sup> 14	8 <sup>13</sup>	
75	Bioadsorbtion of industrial dyes from aqueous solution onto water hyacinth (Eichornia crassipes): equilibrium, kinetic, and sorption mechanism study. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 1484-1	1494	12	
74	Cystamine-configured lead halide based 2D hybrid molecular crystals: Synthesis and photoluminescence systematics. <i>APL Materials</i> , <b>2018</b> , 6, 114204	5.7	12	
73	Application of ANFIS model to optimise the photocatalytic degradation of chlorhexidine digluconate. <i>RSC Advances</i> , <b>2014</b> , 4, 21141	3.7	11	
7 <sup>2</sup>	Process-intensified waste valorization and environmentally friendly d-limonene extraction. <i>Euro-Mediterranean Journal for Environmental Integration</i> , <b>2019</b> , 4, 1	1.7	10	
71	Sequencing batch reactors (SBRs) for BioH2 production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4863-4869	6.7	10	
70	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> , <b>2018</b> , 45, 13,099	<b>4</b> .9	10	
69	Enzyme Immobilization on Polymer Membranes: A Quantum and Molecular Mechanics Study. <i>Computation</i> , <b>2019</b> , 7, 56	2.2	9	
68	Relationships between convective structure and transport of aerosols to the upper troposphere deduced from satellite observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 6515-6	5 <del>5</del> 38	9	
67	Production of total reducing sugar (TRS) from acid hydrolysed potato peels by sonication and its optimization. <i>Environmental Technology (United Kingdom)</i> , <b>2013</b> , 34, 1077-84	2.6	9	
66	Emergence of Si2BN Monolayer as Efficient HER Catalyst under Co-functionalization Influence. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8441-8448	6.1	9	
65	BC(3) sheet functionalized with lithium-rich species emerging as a reversible hydrogen storage material. <i>ChemPhysChem</i> , <b>2015</b> , 16, 634-9	3.2	8	
64	Theoretical Evidence behind Bifunctional Catalytic Activity in Pristine and Functionalized Al C Monolayers. <i>ChemPhysChem</i> , <b>2018</b> , 19, 148-152	3.2	8	
63	Bromination-induced stability enhancement with a multivalley optical response signature in guanidinium [C(NH2)3]+-based hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18561-18568	13	8	
62	Stability of Film-Forming Dispersions: Affects the Morphology and Optical Properties of Polymeric Films. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8	

61	Catalytic Membrane Reactors: The Industrial Applications Perspective. Catalysts, 2021, 11, 691	4	8
60	Artificial Intelligence-Based Optimization of Industrial Membrane Processes. <i>Earth Systems and Environment</i> , <b>2021</b> , 5, 385	7.5	8
59	A Way to Membrane-Based Environmental Remediation for Heavy Metal Removal. <i>Environments - MDPI</i> , <b>2021</b> , 8, 52	3.2	8
58	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> , <b>2016</b> , 113, 11143-11147	11.5	8
57	Current computational trends in polyanionic cathode materials for Li and Na batteries. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 283003	1.8	8
56	Biosorption of lead ions (Pb2+) from simulated wastewater using residual biomass of microalgae. <i>Desalination and Water Treatment</i> , <b>2015</b> , 1-11		7
55	Study of bio-materials for removal of the oil spill. Arabian Journal of Geosciences, 2020, 13, 1	1.8	7
54	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> , <b>2021</b> , 6, 48	1.7	7
53	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> , <b>2015</b> , 97, 192-207	5.5	6
52	Kinetic of lactic acid production from sugarcane juice using Lactobacillus plantarum NCIM 2912. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2014</b> , 9, 374-381	1.3	6
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