

Debalina Sengupta

List of Publications by Year in descending order

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43
papers

1,095
citations

471509

17
h-index

414414

32
g-index

46
all docs

46
docs citations

46
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous optimization of power generation and desalination systems: a general approach with applications to Kuwait. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2129-2141.	4.1	3
2	Assessment of modular biorefineries with economic, environmental, and safety considerations. , 2022, , 293-303.		0
3	Multilayer Approach for Product Portfolio Optimization: Waste to Added-Value Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6410-6426.	6.7	7
4	Disaster-Resilient Design of Manufacturing Facilities Through Process Integration: Principal Strategies, Perspectives, and Research Challenges. <i>Frontiers in Sustainability</i> , 2020, 1, .	2.6	28
5	An Integrated Approach to the Design of Centralized and Decentralized Biorefineries with Environmental, Safety, and Economic Objectives. <i>Processes</i> , 2020, 8, 1682.	2.8	13
6	Hybrid Regeneration Network for Flowback Water Management. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13143-13159.	3.7	9
7	On the optimization of water-energy nexus in shale gas network under price uncertainties. <i>Energy</i> , 2020, 203, 117770.	8.8	18
8	Alternative Pathways for CO ₂ Utilization via Dry Reforming of Methane. , 2020, , 253-272.		11
9	Optimization of water-energy nexus in shale gas exploration: From production to transmission. <i>Energy</i> , 2019, 183, 651-669.	8.8	21
10	Technology review and data analysis for cost assessment of water treatment systems. <i>Science of the Total Environment</i> , 2019, 651, 2749-2761.	8.0	135
11	Using Ultrafiltration for flowback Water Management in Shale Gas Exploration: Multicontaminant Consideration. <i>Computer Aided Chemical Engineering</i> , 2019, 47, 347-352.	0.5	2
12	Optimization Approach to the Reduction of CO ₂ Emissions for Syngas Production Involving Dry Reforming. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7532-7544.	6.7	66
13	Sustainable Process Design Approach for On-Purpose Propylene Production and Intensification. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2407-2421.	6.7	58
14	Simultaneous Energy and Water Optimisation in Shale Exploration. <i>Processes</i> , 2018, 6, 86.	2.8	22
15	Simultaneous Energy and Water Optimization in Shale Exploration. <i>Computer Aided Chemical Engineering</i> , 2018, , 1957-1962.	0.5	0
16	Sustainable Manufacturing Education Modules for Senior Undergraduate or Graduate Engineering Curriculum. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1657-1662.	0.5	6
17	A computational fluid dynamics evaluation of unconfined hydrogen explosions in high pressure applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16411-16420.	7.1	13
18	Using module-based learning methods to introduce sustainable manufacturing in engineering curriculum. <i>International Journal of Sustainability in Higher Education</i> , 2017, 18, 307-328.	3.1	15

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19	Economic and system reliability optimization of heat exchanger networks using NSGA-II algorithm. Applied Thermal Engineering, 2017, 124, 716-724.	6.0	20
20	Shale gas monetization – A review of downstream processing to chemicals and fuels. Journal of Natural Gas Science and Engineering, 2017, 45, 436-455.	4.4	122
21	Incorporating low grade energy recovery in process integrated systems. Current Opinion in Chemical Engineering, 2017, 17, 54-60.	7.8	5
22	A review of biodiesel production from microalgae. Clean Technologies and Environmental Policy, 2017, 19, 637-668.	4.1	130
23	Measuring Progress Towards Sustainability. , 2017, , .		31
24	A Process Integration Approach to the Optimization of CO ₂ Utilization via Tri-Reforming of Methane. Computer Aided Chemical Engineering, 2017, , 1993-1998.	0.5	6
25	Incorporating Systems Thinking in the Engineering Design Curriculum: Path Forward for Sustainability Education. , 2017, , 201-213.		2
26	Statistical Algorithms for Sustainability Measurement and Decision Making. , 2017, , 153-184.		3
27	Detailed life cycle assessment of Bounty® paper towel operations in the United States. Journal of Cleaner Production, 2016, 131, 509-522.	9.3	18
28	Environmental and economic analysis for the optimal reuse of water in a residential complex. Journal of Cleaner Production, 2016, 130, 82-91.	9.3	49
29	Evaluating Consumer Product Life Cycle Sustainability with Integrated Metrics: A Paper Towel Case Study. Industrial & Engineering Chemistry Research, 2016, 55, 3433-3441.	3.7	8
30	Life cycle assessment for Ambrox® production from different chemical routes. Journal of Cleaner Production, 2016, 130, 202-212.	9.3	8
31	Selection of Sustainable Processes Using Sustainability Footprint Method. Computer Aided Chemical Engineering, 2015, , 311-329.	0.5	8
32	Industrial process system assessment: bridging process engineering and life cycle assessment through multiscale modeling. Journal of Cleaner Production, 2015, 90, 142-152.	9.3	13
33	Moving to a decision point in sustainability analyses. , 2015, , 87-129.		7
34	An industrial ecology approach to municipal solid waste management: II. Case studies for recovering energy from the organic fraction of MSW. Resources, Conservation and Recycling, 2015, 104, 317-326.	10.8	33
35	Sustainability in the context of process engineering. Clean Technologies and Environmental Policy, 2015, 17, 833-840.	4.1	31
36	Using national inventories for estimating environmental impacts of products from industrial sectors: a case study of ethanol and gasoline. International Journal of Life Cycle Assessment, 2015, 20, 597-607.	4.7	20

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37	An industrial ecology approach to municipal solid waste management: I. Methodology. Resources, Conservation and Recycling, 2015, 104, 311-316.	10.8	26
38	Environmental sustainability of countries using the UN MDG indicators by multivariate statistical methods. Environmental Progress and Sustainable Energy, 2015, 34, 198-206.	2.3	12
39	Chemicals from Biomass. , 2015, , 1-38.		2
40	Biomass as Feedstock. , 2015, , 1-42.		1
41	Parsimonious use of indicators for evaluating sustainability systems with multivariate statistical analyses. Clean Technologies and Environmental Policy, 2013, 15, 699-706.	4.1	37
42	More on aggregating multiple indicators into a single index for sustainability analyses. Clean Technologies and Environmental Policy, 2012, 14, 765-773.	4.1	61
43	Biomass as Feedstock. , 2012, , 911-964.		1