

# Parisa A Bahri

## List of Publications by Year in descending order

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107  
papers

2,954  
citations

147726

31  
h-index

189801

50  
g-index

110  
all docs

110  
docs citations

110  
times ranked

3169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction and conversion pathways for microalgae to biodiesel: a review focused on energy consumption. <i>Journal of Applied Phycology</i> , 2012, 24, 1681-1698.	1.5	167
2	From goals to joules: A quantitative approach of interlinkages between energy and the Sustainable Development Goals. <i>Energy Research and Social Science</i> , 2019, 50, 201-214.	3.0	128
3	Integrated flexibility and controllability analysis in design of chemical processes. <i>AIChE Journal</i> , 1997, 43, 997-1015.	1.8	116
4	Model development for the growth of microalgae: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 233-258.	8.2	111
5	The role of water-energy nexus in optimising water supply systems – Review of techniques and approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1424-1432.	8.2	108
6	Effect of different light spectra on the growth and productivity of acclimated <i>Nannochloropsis</i> sp. ( <i>Eustigmatophyceae</i> ). <i>Algal Research</i> , 2015, 8, 121-127.	2.4	102
7	Heterogeneous photo-Fenton degradation of organics using highly efficient Cu-doped LaFeO <sub>3</sub> under visible light. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 53-64.	2.9	97
8	Sustainable saline microalgae co-cultivation for biofuel production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 356-368.	8.2	91
9	Barriers and opportunities of biogas dissemination in Sub-Saharan Africa and lessons learned from Rwanda, Tanzania, China, India, and Nepal. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 468-476.	8.2	88
10	Effect of disturbances in optimizing control: Steady-state open-loop backoff problem. <i>AIChE Journal</i> , 1996, 42, 983-994.	1.8	71
11	Polymer flocculation of calcite: Population balance model. <i>AIChE Journal</i> , 2006, 52, 1641-1653.	1.8	65
12	Polymer flocculation of calcite: Relating the aggregate size to the settling rate. <i>AIChE Journal</i> , 2006, 52, 1987-1994.	1.8	63
13	Halo-adapted microalgae for fucoxanthin production: Effect of incremental increase in salinity. <i>Algal Research</i> , 2017, 28, 66-73.	2.4	60
14	The effect of gradual increase in salinity on the biomass productivity and biochemical composition of several marine, halotolerant, and halophilic microalgae. <i>Journal of Applied Phycology</i> , 2018, 30, 1453-1464.	1.5	60
15	A survey of Petri net applications in batch processes. <i>Computers in Industry</i> , 2002, 47, 99-111.	5.7	59
16	Polymer flocculation of calcite: Experimental results from turbulent pipe flow. <i>AIChE Journal</i> , 2006, 52, 1284-1293.	1.8	53
17	Ammonia stress on a resilient mesophilic anaerobic inoculum: Methane production, microbial community, and putative metabolic pathways. <i>Bioresource Technology</i> , 2019, 275, 70-77.	4.8	53
18	Supercritical methanol for fatty acid methyl ester production: A review. <i>Biomass and Bioenergy</i> , 2011, 35, 983-991.	2.9	52

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19	Economic impact of disturbances and uncertain parameters in chemical processesâ€”A dynamic back-off analysis. <i>Computers and Chemical Engineering</i> , 1996, 20, 453-461.	2.0	51
20	Pathways of processing of wet microalgae for liquid fuel production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1240-1250.	8.2	51
21	Review and assessment of energy policy developments in Chile. <i>Energy Policy</i> , 2019, 127, 87-101.	4.2	51
22	Treating anaerobically digested piggery effluent (ADPE) using microalgae in thin layer reactor and raceway pond. <i>Journal of Applied Phycology</i> , 2019, 31, 2311-2319.	1.5	50
23	Techno-economic assessment of CO <sub>2</sub> bio-fixation using microalgae in connection with three different state-of-the-art power plants. <i>Computers and Chemical Engineering</i> , 2016, 84, 290-301.	2.0	47
24	Selecting an economically suitable and sustainable solution for a renewable energy-powered water desalination system: A rural Australian case study. <i>Desalination</i> , 2018, 435, 128-139.	4.0	47
25	Broadening the potential of biogas in Sub-Saharan Africa: An assessment of feasible technologies and feedstocks. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 556-571.	8.2	37
26	Adsorption and photo-Fenton catalytic degradation of organic dyes over crystalline LaFeO <sub>3</sub> -doped porous silica. <i>RSC Advances</i> , 2018, 8, 36181-36190.	1.7	36
27	Surface Electronic Structure and Mechanical Characteristics of Copperâ€”Cobalt Oxide Thin Film Coatings: Soft X-ray Synchrotron Radiation Spectroscopic Analyses and Modeling. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16457-16467.	1.5	35
28	An assessment of energy policy impacts on achieving Sustainable Development Goal 7 in Indonesia. <i>Energy for Sustainable Development</i> , 2020, 59, 33-48.	2.0	35
29	Implications of the Sustainable Development Goals on national energy demand: The case of Indonesia. <i>Energy</i> , 2020, 196, 117100.	4.5	35
30	Microalgae cultivation for the treatment of anaerobically digested municipal centrate (ADMC) and anaerobically digested abattoir effluent (ADAE). <i>Science of the Total Environment</i> , 2021, 775, 145853.	3.9	35
31	Petri-net based formulation and algorithm for short-term scheduling of batch plants. <i>Computers and Chemical Engineering</i> , 2005, 29, 249-259.	2.0	34
32	Repetitive non-destructive milking of hydrocarbons from <i>Botryococcus braunii</i> . <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1229-1240.	8.2	33
33	An interactive planning model for sustainable urban water and energy supply. <i>Applied Energy</i> , 2019, 235, 332-345.	5.1	31
34	Techno-economic analysis of milking of <i>Botryococcus braunii</i> for renewable hydrocarbon production. <i>Algal Research</i> , 2018, 31, 194-203.	2.4	30
35	Back-off calculations in optimising control: A dynamic approach. <i>Computers and Chemical Engineering</i> , 1995, 19, 699-708.	2.0	28
36	Hybrid intelligent scenario generator for business strategic planning by using ANFIS. <i>Expert Systems With Applications</i> , 2009, 36, 7729-7737.	4.4	28

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37	Integration techniques in intelligent operational management: a review. <i>Knowledge-Based Systems</i> , 2005, 18, 89-97.	4.0	27
38	Effects of different light spectra on the growth, productivity and photosynthesis of two acclimated strains of <i>Nannochloropsis</i> sp.. <i>Journal of Applied Phycology</i> , 2017, 29, 1765-1774.	1.5	27
39	Life cycle assessment of domestic hot water systems in Australia. <i>Renewable Energy</i> , 2017, 103, 187-196.	4.3	27
40	Optimizing photocatalytic performance of hydrothermally synthesized LaFeO <sub>3</sub> by tuning material properties and operating conditions. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1209-1218.	3.3	27
41	Co-cultivation and stepwise cultivation of <i>Chaetoceros muelleri</i> and <i>Amphora</i> sp. for fucoxanthin production under gradual salinity increase. <i>Journal of Applied Phycology</i> , 2019, 31, 1535-1544.	1.5	27
42	An analysis of additional energy requirement to meet the sustainable development goals. <i>Journal of Cleaner Production</i> , 2020, 272, 122646.	4.6	27
43	Techno-economic and reliability assessment of solar water heaters in Australia based on Monte Carlo analysis. <i>Renewable Energy</i> , 2017, 105, 774-785.	4.3	26
44	A multiple model, state feedback strategy for robust control of non-linear processes. <i>Computers and Chemical Engineering</i> , 2007, 31, 410-418.	2.0	25
45	Facile fabrication of perovskite-incorporated hierarchically mesoporous/macroporous silica for efficient photoassisted-Fenton degradation of dye. <i>Applied Surface Science</i> , 2019, 491, 488-496.	3.1	25
46	A two-step supervisory fault diagnosis framework. <i>Computers and Chemical Engineering</i> , 2004, 28, 2131-2140.	2.0	24
47	Stepwise culture approach optimizes the biomass productivity of microalgae cultivated using an incremental salinity increase strategy. <i>Biomass and Bioenergy</i> , 2019, 127, 105274.	2.9	24
48	Growth and photosynthetic activity of <i>Botryococcus braunii</i> biofilms. <i>Journal of Applied Phycology</i> , 2017, 29, 1123-1134.	1.5	23
49	Monochromatic light filters to enhance biomass and carotenoid productivities of <i>Dunaliella salina</i> in raceway ponds. <i>Bioresource Technology</i> , 2021, 340, 125689.	4.8	21
50	An integrated Petri net and GA based approach for scheduling of hybrid plants. <i>Computers in Industry</i> , 2007, 58, 519-530.	5.7	19
51	Continuous non-destructive hydrocarbon extraction from <i>Botryococcus braunii</i> BOT-22. <i>Algal Research</i> , 2019, 41, 101537.	2.4	19
52	Can CO <sub>2</sub> addition improve the tertiary treatment of anaerobically digested abattoir effluent (ADAE) by <i>Scenedesmus</i> sp. (Chlorophyta)?. <i>Algal Research</i> , 2021, 58, 102379.	2.4	19
53	Operability assessment in chemical plants. <i>Computers and Chemical Engineering</i> , 1996, 20, S787-S792.	2.0	18
54	Lactic acid from mixed food wastes at a commercial biogas facility: Effect of feedstock and process conditions. <i>Journal of Cleaner Production</i> , 2021, 284, 125243.	4.6	18

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55	Temperature and salinity effects on growth and fatty acid composition of a halophilic diatom, <i>Amphora</i> sp. MUR258 (Bacillariophyceae). <i>Journal of Applied Phycology</i> , 2020, 32, 977-987.	1.5	18
56	Development of an optimal biogas system design model for Sub-Saharan Africa with case studies from Kenya and Cameroon. <i>Renewable Energy</i> , 2017, 109, 586-601.	4.3	17
57	Anaerobic digestate abattoir effluent (ADAE), a suitable source of nutrients for <i>Arthrospira platensis</i> cultivation. <i>Algal Research</i> , 2021, 54, 102216.	2.4	17
58	Solar water heaters uptake in Australia – Issues and barriers. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 30, 11-23.	1.7	16
59	Non-destructive extraction of lipids from <i>Botryococcus braunii</i> and its potential to reduce pond area and nutrient costs. <i>Algal Research</i> , 2020, 47, 101833.	2.4	16
60	Life cycle analysis of milking of microalgae for renewable hydrocarbon production. <i>Computers and Chemical Engineering</i> , 2019, 121, 510-522.	2.0	13
61	The integration of the output controllability index within the dynamic operability framework in process system design. <i>Journal of Process Control</i> , 2003, 13, 717-727.	1.7	12
62	Superstructure optimization and energetic feasibility analysis of process of repetitive extraction of hydrocarbons from <i>Botryococcus braunii</i> – a species of microalgae. <i>Computers and Chemical Engineering</i> , 2017, 97, 36-46.	2.0	12
63	Developing a food waste biorefinery: Lactic acid extraction using anionic resin and impacts on downstream biogas production. <i>Chemical Engineering Journal</i> , 2022, 431, 133243.	6.6	12
64	Scheduling of a mixed batch/continuous sugar milling plant using Petri nets. <i>Computers and Chemical Engineering</i> , 2008, 32, 580-589.	2.0	10
65	Development and validation of a two phase CFD model for tubular biodiesel reactors. <i>Computers and Chemical Engineering</i> , 2015, 82, 129-143.	2.0	9
66	Steady state optimization of design and operation of desalination systems using Aspen Custom Modeler. <i>Computers and Chemical Engineering</i> , 2016, 91, 247-256.	2.0	9
67	Sustainable conversion of light to algal biomass and electricity: A net energy return analysis. <i>Energy</i> , 2017, 131, 218-229.	4.5	9
68	Repetitive extraction of botryococcene from <i>Botryococcus braunii</i> : a study of the effects of different solvents and operating conditions. <i>Journal of Applied Phycology</i> , 2019, 31, 3491-3501.	1.5	9
69	Evaluation of electrocoagulation, flocculation, and sedimentation harvesting methods on microalgae consortium grown in anaerobically digested abattoir effluent. <i>Journal of Applied Phycology</i> , 2021, 33, 1631-1642.	1.5	9
70	Supplier portfolio selection based on the monitoring of supply risk indicators. <i>Simulation Modelling Practice and Theory</i> , 2019, 97, 101955.	2.2	8
71	A two-level decision making approach for optimal integrated urban water and energy management. <i>Energy</i> , 2018, 155, 408-425.	4.5	7
72	Modeling the Effect of Temperature on Microalgal Growth under Outdoor Conditions. <i>Computer Aided Chemical Engineering</i> , 2018, , 55-60.	0.3	7

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73	Proposal of a New Pathway for Microalgal Oil Production and its Comparison with Conventional Method. <i>Computer Aided Chemical Engineering</i> , 2015, , 377-382.	0.3	7
74	Potential of Milking of Microalgae Grown on Biofilm Photobioreactor for Renewable Hydrocarbon Production. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2497-2502.	0.3	6
75	Assessing Interpolation Methods for Accuracy of Design Groundwater Levels for Civil Projects. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 04020042.	0.8	5
76	Application of Graphic Processing Unit in Model Predictive Control. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 492-496.	0.3	5
77	Petri-Net Based Modelling and Scheduling of Batch Processing Plants – A Heuristic Algorithm. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000, 33, 461-466.	0.4	4
78	A multiple model approach to robust control and operation of complex non-linear processes. <i>Computer Aided Chemical Engineering</i> , 2003, 15, 1064-1069.	0.3	4
79	Novel Domain-Specific Language Framework for Controllability Analysis. <i>Computer Aided Chemical Engineering</i> , 2014, , 559-564.	0.3	3
80	Modelling Cobalt Solvent Extraction using Aspen Custom Modeler. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 505-510.	0.3	3
81	Superstructure Development, Simulation and Optimization of Desalination Systems using Aspen Custom Modeler. <i>Computer Aided Chemical Engineering</i> , 2015, , 383-388.	0.3	3
82	Development of a model for identifying the optimal biogas system design in Sub-Saharan Africa. <i>Computer Aided Chemical Engineering</i> , 2016, , 1533-1538.	0.3	3
83	Selection of an Energetically More Feasible Route for Hydrocarbon Extraction from Microalgae – Milking of <i>B. braunii</i> as a Case Study. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1545-1550.	0.3	3
84	A Novel Decision-Making Approach for Supplier Selection under Risks. <i>Computer Aided Chemical Engineering</i> , 2017, , 1267-1272.	0.3	3
85	Shear Tolerance and Lipid Content of <i>Botryococcus braunii</i> During and Post Non-Destructive Solvent Extraction. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1735-1740.	0.3	3
86	Sustainable energy for all: Impacts of Sustainable Development Goals implementation on household sector energy demand in Indonesia. , 2018, , .		3
87	Variable redundancy elimination and automatic structure selection within dynamic operability framework. <i>Computer Aided Chemical Engineering</i> , 2003, , 808-813.	0.3	2
88	Development of a novel Petri net tool for process design selection based on inherent safety assessment method. <i>Computer Aided Chemical Engineering</i> , 2008, , 127-132.	0.3	2
89	Development of an integrated model for cobalt solvent extraction using Cyanex 272. <i>Computer Aided Chemical Engineering</i> , 2012, , 550-554.	0.3	2
90	A Novel Graphical Method for Controllability Analysis of Chemical Process Designs. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 655-660.	0.3	2

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91	Water Security and Clean Energy, Co-benefits of an Integrated Water and Energy Management. Computer Aided Chemical Engineering, 2017, 40, 1363-1368.	0.3	2
92	Integrating Real-time Operational Constraints in Planning of Water and Energy Supply. Computer Aided Chemical Engineering, 2018, , 313-318.	0.3	2
93	An agent-oriented approach to integrated process operations in chemical plants. Computer Aided Chemical Engineering, 2005, 20, 1585-1590.	0.3	1
94	Steady-state optimisation of the leaching process at Kwinana Nickel refinery. Computer Aided Chemical Engineering, 2007, , 557-562.	0.3	1
95	Optimal Control of the Process Systems Using Graphic Processing Unit. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12108-12113.	0.4	1
96	A New Software Development Methodology for Controllability Analysis of Forced Circulation Evaporator System. Computer Aided Chemical Engineering, 2015, , 1559-1564.	0.3	1
97	Dynamic Optimization of Desalination System Designs using Aspen Custom Modeler. Computer Aided Chemical Engineering, 2016, , 1539-1544.	0.3	1
98	A renewable energy-driven water treatment system in regional Western Australia. , 2017, , .		1
99	A model for the effect of light on the growth of microalgae in outdoor condition. Computer Aided Chemical Engineering, 2017, , 2737-2742.	0.3	1
100	Adaptation of output controllability index within dynamic operability framework. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 685-690.	0.4	0
101	The control unfalsification within the dynamic operability framework. Computer Aided Chemical Engineering, 2004, 18, 643-648.	0.3	0
102	Adaptive Neuro-Fuzzy Inference System for generating scenarios in business strategic planning. , 2007, , .		0
103	Online estimation of crystal size distribution (CSD) within industrial gibbsite precipitation plants. Computer Aided Chemical Engineering, 2011, , 1638-1642.	0.3	0
104	Control Strategy Designs and Simulations for a Biological Waste Water Treatment Process. Computer Aided Chemical Engineering, 2014, 33, 631-636.	0.3	0
105	Maximum groundwater level for urban development: Evaluation of different calculation methods in Western Australia. Computer Aided Chemical Engineering, 2018, 44, 2533-2538.	0.3	0
106	Development of a Novel Approach for Electricity Forecasting. Lecture Notes in Electrical Engineering, 2014, , 635-649.	0.3	0
107	The Effect of Indirect GHG Emissions Costs on the Optimal Water and Energy Supply Systems. Computer Aided Chemical Engineering, 2019, , 1207-1212.	0.3	0