

Abubakr S Bahaj

List of Publications by Year in descending order

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135
papers

6,457
citations

76326

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66911

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139
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139
docs citations

139
times ranked

4166
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi Criteria Decision Analysis to Optimise Siting of Electric Vehicle Charging Pointsâ€”Case Study Winchester District, UK. <i>Energies</i> , 2022, 15, 2497.	3.1	10
2	Floating solar PV to reduce water evaporation in water stressed regions and powering water pumping: Case study Jordan. <i>Energy Conversion and Management</i> , 2022, 260, 115598.	9.2	30
3	Solar PV Penetration Scenarios for a University Campus in KSA. <i>Energies</i> , 2022, 15, 3150.	3.1	1
4	Effects of High Ambient Temperature on Electric Vehicle Efficiency and Range: Case Study of Kuwait. <i>Energies</i> , 2022, 15, 3178.	3.1	7
5	Solar Power Potential from Industrial Buildings and Impact on Electricity Supply in Bangladesh. <i>Energies</i> , 2022, 15, 4037.	3.1	4
6	Small hydropower development in China: Growing challenges and transition strategy. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110653.	16.4	29
7	Review of thermal and environmental performance of prefabricated buildings: Implications to emission reductions in China. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110472.	16.4	55
8	Status of Marine Current Energy Conversion in China. <i>International Marine Energy Journal</i> , 2021, 4, 11-23.	0.8	5
9	Satellite imagery to select a sample of rooftops for a PV installation project in Jeddah, Saudi Arabia. <i>Journal of Physics: Conference Series</i> , 2021, 2042, 012014.	0.4	0
10	Ensuring statistics have power: Guidance for designing, reporting and acting on electricity demand reduction and behaviour change programs. <i>Energy Research and Social Science</i> , 2020, 59, 101260.	6.4	7
11	New approach to determine the Importance Index for developing offshore wind energy potential sites: Supported by UK and Arabian Peninsula case studies. <i>Renewable Energy</i> , 2020, 152, 441-457.	8.9	25
12	Tidal current power effects on nearby sandbanks: a case study in the Race of Alderney. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190503.	3.4	4
13	Heating and controls use resulting from shared-cost charges in communal network social housing. <i>Building Services Engineering Research and Technology</i> , 2020, 41, 315-331.	1.8	2
14	Tracking a cityâ€™s center of gravity over 500 years of growth from a time series of georectified historical maps. <i>Cartography and Geographic Information Science</i> , 2020, 47, 524-536.	3.0	8
15	Dust Removal from Solar PV Modules by Automated Cleaning Systems. <i>Energies</i> , 2019, 12, 2923.	3.1	56
16	Electrical Minigrids for Development: Lessons From the Field. <i>Proceedings of the IEEE</i> , 2019, 107, 1967-1980.	21.3	14
17	Onshore wind and the likelihood of planning acceptance: Learning from a Great Britain context. <i>Energy Policy</i> , 2019, 128, 954-966.	8.8	31
18	Assessing socially acceptable locations for onshore wind energy using a GIS-MCDA approach. <i>International Journal of Low-Carbon Technologies</i> , 2019, 14, 160-169.	2.6	38

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19	The Impact of an Electrical Mini-grid on the Development of a Rural Community in Kenya. <i>Energies</i> , 2019, 12, 778.	3.1	19
20	City-wide building height determination using light detection and ranging data. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2019, 46, 1741-1755.	2.0	7
21	Spatial Variation in Sound Frequency Components Across an Urban Area Derived from Mobile Surveys. <i>Future Cities and Environment</i> , 2019, 5, .	1.6	3
22	Small hydropower development in Tibet: Insight from a survey in Nagqu Prefecture. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 3032-3040.	16.4	19
23	Multi criteria decision analysis for offshore wind energy potential in Egypt. <i>Renewable Energy</i> , 2018, 118, 278-289.	8.9	129
24	Evaluating CHP management and outputs using simple operational data. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 109-115.	2.6	3
25	Sick and stuck at home – how poor health increases electricity consumption and reduces opportunities for environmentally-friendly travel in the United Kingdom. <i>Energy Research and Social Science</i> , 2018, 44, 250-259.	6.4	31
26	Promoting low carbon behaviours through personalised information? Long-term evaluation of a carbon calculator interview. <i>Energy Policy</i> , 2018, 120, 284-293.	8.8	45
27	Aspirations of Retailers and Visitors Towards the Regeneration of Declining Streets in Cities. <i>Future Cities and Environment</i> , 2018, 4, .	1.6	1
28	City-wide Building Energy Efficiency Assessment Using EPC Data. <i>Future Cities and Environment</i> , 2018, 4, .	1.6	0
29	Assessment of the energy extraction potential at tidal sites around the Channel Islands. <i>Energy</i> , 2017, 124, 171-186.	8.8	57
30	Thermal Performance Evaluation of School Buildings using a Children-based Adaptive Comfort Model. <i>Procedia Environmental Sciences</i> , 2017, 38, 844-851.	1.4	40
31	Dataset of the livability performance of the city of Birmingham, UK, as measured by its citizen wellbeing, resource security, resource efficiency and carbon emissions. <i>Data in Brief</i> , 2017, 15, 691-695.	1.0	12
32	Electricity consumption and household characteristics: Implications for census-taking in a smart metered future. <i>Computers, Environment and Urban Systems</i> , 2017, 63, 58-67.	7.1	69
33	How Sharing Can Contribute to More Sustainable Cities. <i>Sustainability</i> , 2017, 9, 701.	3.2	22
34	Assessment of Large Scale Photovoltaic Power Generation from Carport Canopies. <i>Energies</i> , 2017, 10, 686.	3.1	25
35	Small-Scale Wind Turbines. , 2017, , 389-418.		6
36	Offshore Wind Energy Potential Around the East Coast of the Red Sea, KSA. , 2017, , .		5

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37	Effects of turbulence on tidal turbines: Implications to performance, blade loads, and condition monitoring. <i>International Journal of Marine Energy</i> , 2016, 14, 1-26.	1.8	111
38	Experimental validation of the distributed drag method for simulating large marine current turbine arrays using porous fences. <i>International Journal of Marine Energy</i> , 2016, 16, 298-316.	1.8	9
39	Fuel poverty-induced "prebound effect"™ in achieving the anticipated carbon savings from social housing retrofit. <i>Building Services Engineering Research and Technology</i> , 2016, 37, 176-193.	1.8	30
40	The Role of Digital Trace Data in Supporting the Collection of Population Statistics – the Case for Smart Metered Electricity Consumption Data. <i>Population, Space and Place</i> , 2016, 22, 849-863.	2.3	10
41	Social structure, reasonable gain, and entrepreneurship in Africa. <i>Strategic Management Journal</i> , 2016, 37, 1118-1131.	7.3	87
42	Infrastructural challenges to better health in maternity facilities in rural Kenya: community and healthworker perceptions. <i>Reproductive Health</i> , 2015, 12, 103.	3.1	49
43	A simple, scalable and low-cost method to generate thermal diagnostics of a domestic building. <i>Applied Energy</i> , 2014, 134, 519-530.	10.1	7
44	Carbon emissions by rural energy in China. <i>Renewable Energy</i> , 2014, 66, 641-649.	8.9	45
45	Preliminary design of the OWEL wave energy converter pre-commercial demonstrator. <i>Renewable Energy</i> , 2014, 61, 51-56.	8.9	8
46	Influence of turbulence on the drag of solid discs and turbine simulators in a water current. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	19
47	Influence of turbulence on the wake of a marine current turbine simulator. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140331.	2.1	30
48	Quantifying wave and yaw effects on a scale tidal stream turbine. <i>Renewable Energy</i> , 2014, 63, 297-307.	8.9	91
49	Transforming existing weather data for worldwide locations to enable energy and building performance simulation under future climates. <i>Renewable Energy</i> , 2013, 55, 514-524.	8.9	220
50	Tidal current power for Indonesia? An initial resource estimation for the Alas Strait. <i>Renewable Energy</i> , 2013, 49, 137-142.	8.9	47
51	Shaping array design of marine current energy converters through scaled experimental analysis. <i>Energy</i> , 2013, 59, 83-94.	8.8	30
52	Marine current energy conversion: the dawn of a new era in electricity production. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120500.	3.4	30
53	Accuracy of the actuator disc-RANS approach for predicting the performance and wake of tidal turbines. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120293.	3.4	72
54	New research in tidal current energy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120501.	3.4	3

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55	Inlet grid-generated turbulence for large-eddy simulations. International Journal of Computational Fluid Dynamics, 2013, 27, 307-315.	1.2	18
56	Modelling of the flow field surrounding tidal turbine arrays for varying positions in a channel. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120246.	3.4	9
57	The Effect of Boundary Proximity Upon the Wake Structure of Horizontal Axis Marine Current Turbines. Journal of Offshore Mechanics and Arctic Engineering, 2012, 134, .	1.2	24
58	Generating Electrical Power from Ocean Resources. , 2012, , 1-6.		1
59	An experimental investigation simulating flow effects in first generation marine current energy converter arrays. Renewable Energy, 2012, 37, 28-36.	8.9	160
60	Development of marine current turbines for electricity production. , 2011, , .		2
61	Experimental investigation of inter-array wake properties in early tidal turbine arrays. , 2011, , .		2
62	A comparison of estimators for the generalised Pareto distribution. Ocean Engineering, 2011, 38, 1338-1346.	4.3	58
63	Foundation-based flow acceleration structures for marine current energy converters. IET Renewable Power Generation, 2011, 5, 287.	3.1	7
64	Pole-mounted horizontal axis micro-wind turbines: UK field trial findings and market size assessment. Energy Policy, 2011, 39, 3822-3831.	8.8	10
65	Generating electricity from the oceans. Renewable and Sustainable Energy Reviews, 2011, 15, 3399-3416.	16.4	298
66	Implications of the UK field trial of building mounted horizontal axis micro-wind turbines. Energy Policy, 2010, 38, 6130-6144.	8.8	42
67	Comparison between CFD simulations and experiments for predicting the far wake of horizontal axis tidal turbines. IET Renewable Power Generation, 2010, 4, 613.	3.1	149
68	Uncertainty in wave energy resource assessment. Part 2: Variability and predictability. Renewable Energy, 2010, 35, 1809-1819.	8.9	70
69	Experimental analysis of the flow field around horizontal axis tidal turbines by use of scale mesh disk rotor simulators. Ocean Engineering, 2010, 37, 218-227.	4.3	182
70	On the use of discrete seasonal and directional models for the estimation of extreme wave conditions. Ocean Engineering, 2010, 37, 425-442.	4.3	30
71	Tribological design constraints of marine renewable energy systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4807-4827.	3.4	46
72	Uncertainty in wave energy resource assessment. Part 1: Historic data. Renewable Energy, 2010, 35, 1792-1808.	8.9	69

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73	Briefing: olympic delivery authority's 2012 transport strategy. Civil Engineering Innovation, 2009, 3, 03-05.	0.0	0
74	Quantifying the added value of BiPV as a shading solution in atria. Solar Energy, 2009, 83, 220-231.	6.1	32
75	Delivering developing country growth: A new mechanistic approach driven by the photovoltaic industry. Renewable and Sustainable Energy Reviews, 2009, 13, 2142-2148.	16.4	4
76	The prediction of the hydrodynamic performance of marine current turbines. Renewable Energy, 2008, 33, 1085-1096.	8.9	275
77	Climate change future proofing of buildings" Generation and assessment of building simulation weather files. Energy and Buildings, 2008, 40, 2148-2168.	6.7	257
78	Potential of emerging glazing technologies for highly glazed buildings in hot arid climates. Energy and Buildings, 2008, 40, 720-731.	6.7	121
79	Domestic micro-generation: Economic, regulatory and policy issues for the UK. Energy Policy, 2008, 36, 3095-3106.	8.8	47
80	The Effect of Boundary Proximity Upon the Wake Structure of Horizontal Axis Marine Current Turbines. , 2008, , .		8
81	Comparing Energy Yields From Fixed and Yawing Horizontal Axis Marine Current Turbines in the English Channel. , 2008, , .		3
82	Wave Energy Resource Assessment Using Satellite Altimeter Data. , 2008, , .		4
83	Tidal energy resource assessment for tidal stream generators. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 137-146.	1.4	131
84	Solar photovoltaic energy: generation in the built environment. Civil Engineering Innovation, 2007, 1, 55-62.	0.0	0
85	Urban energy generation: Influence of micro-wind turbine output on electricity consumption in buildings. Energy and Buildings, 2007, 39, 154-165.	6.7	144
86	Experimentally validated numerical method for the hydrodynamic design of horizontal axis tidal turbines. Ocean Engineering, 2007, 34, 1013-1020.	4.3	184
87	Wake studies of a 1/30th scale horizontal axis marine current turbine. Ocean Engineering, 2007, 34, 758-762.	4.3	68
88	Power and thrust measurements of marine current turbines under various hydrodynamic flow conditions in a cavitation tunnel and a towing tank. Renewable Energy, 2007, 32, 407-426.	8.9	582
89	Experimental verifications of numerical predictions for the hydrodynamic performance of horizontal axis marine current turbines. Renewable Energy, 2007, 32, 2479-2490.	8.9	211
90	Urban energy generation: The added value of photovoltaics in social housing. Renewable and Sustainable Energy Reviews, 2007, 11, 2121-2136.	16.4	137

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91	Solar photovoltaic energy: generation in the built environment. Civil Engineering Innovation, 2007, 1, 55-62.	0.0	0
92	Hydrodynamics of marine current turbines. Renewable Energy, 2006, 31, 249-256.	8.9	210
93	Power output performance characteristics of a horizontal axis marine current turbine. Renewable Energy, 2006, 31, 197-208.	8.9	81
94	PV array <5kWp+single inverter=grid connected PV system: Are multiple inverter alternatives economic?. Solar Energy, 2006, 80, 1179-1188.	6.1	34
95	Initial evaluation of tidal stream energy resources at Portland Bill, UK. Renewable Energy, 2006, 31, 121-132.	8.9	113
96	Influence of iron valency on the magnetic susceptibility of a microbially produced iron sulphide.. Journal of Physics: Conference Series, 2005, 17, 65-69.	0.4	2
97	Solar photovoltaic energy: generation in the built environment. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2005, 158, 45-51.	0.3	7
98	Smart glazing solutions to glare and solar gain: a "sick building"™ case study. Energy and Buildings, 2005, 37, 1058-1067.	6.7	14
99	Holographic optical elements: various principles for solar control of conservatories and sunrooms. Solar Energy, 2005, 78, 441-454.	6.1	15
100	Development of a highly magnetic iron sulphide for metal uptake and magnetic separation. Journal of Magnetism and Magnetic Materials, 2005, 293, 567-571.	2.3	10
101	Simulated electrical power potential harnessed by marine current turbine arrays in the Alderney Race. Renewable Energy, 2005, 30, 1713-1731.	8.9	148
102	Analytical estimates of the energy yield potential from the Alderney Race (Channel Islands) using marine current energy converters. Renewable Energy, 2004, 29, 1931-1945.	8.9	101
103	Measurements and predictions of forces, pressures and cavitation on 2-D sections suitable for marine current turbines. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2004, 218, 127-138.	0.5	32
104	Student project allocation using integer programming. IEEE Transactions on Education, 2003, 46, 359-367.	2.4	34
105	Fundamentals applicable to the utilisation of marine current turbines for energy production. Renewable Energy, 2003, 28, 2205-2211.	8.9	195
106	Photovoltaic roofing: issues of design and integration into buildings. Renewable Energy, 2003, 28, 2195-2204.	8.9	27
107	EFFICIENCY ENHANCEMENTS THROUGH THE USE OF MAGNETIC FIELD GRADIENT IN ORIENTATION MAGNETIC SEPARATION FOR THE REMOVAL OF POLLUTANTS BY MAGNETOTACTIC BACTERIA. Separation Science and Technology, 2002, 37, 3661-3671.	2.5	10
108	Implementation of the first building integrated photovoltaic cladding on the south coast of the United Kingdom. Renewable Energy, 2002, 26, 509-519.	8.9	7

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109	Means of enhancing and promoting the use of solar energy. <i>Renewable Energy</i> , 2002, 27, 97-105.	8.9	12
110	The First Building Integrated Photovoltaic Cladding on the South Coast of the UK. , 2000, , 773-778.		0
111	Wastewater treatment by bio-magnetic separation: A comparison of iron oxide and iron sulphide biomass recovery. <i>Water Science and Technology</i> , 1998, 38, 311.	2.5	7
112	Low magnetic-field separation system for metal-loaded magnetotactic bacteria. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 1453-1454.	2.3	21
113	Continuous radionuclide recovery from wastewater using magnetotactic bacteria. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 184, 241-244.	2.3	56
114	World's first solar powered transport refrigeration system. <i>Renewable Energy</i> , 1998, 15, 572-576.	8.9	9
115	A comparative study of the magnetic separation characteristics of magnetotactic and sulphate reducing bacteria. <i>Journal of Applied Physics</i> , 1998, 83, 6444-6446.	2.5	8
116	Continuous cultivation and recovery of magnetotactic bacteria. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 4263-4265.	2.1	5
117	An alternative method for the estimation of the magnetic moment of non-spherical magnetotactic bacteria. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 5133-5135.	2.1	25
118	High gradient magnetic separation of motile and non-motile magnetotactic bacteria. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 5106-5108.	2.1	13
119	Metal uptake and separation using magnetotactic bacteria. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 4707-4709.	2.1	31
120	Characterisation of magnetotactic bacteria using image processing techniques. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 3358-3360.	2.1	25
121	Characterization and growth of magnetotactic bacteria: Implications of clean up of environmental pollution. <i>Journal of Applied Physics</i> , 1993, 73, 5394-5396.	2.5	21
122	Extraction of heavy metals using microorganisms and high gradient magnetic separation. <i>IEEE Transactions on Magnetics</i> , 1991, 27, 5371-5374.	2.1	21
123	Status of Solar Energy Conversion and Applications in Yemen. , 1991, , 1155-1157.		0
124	Vortex capture in high gradient magnetic separators at moderate Reynolds number. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 3803-3805.	2.1	7
125	Determination of magnetic susceptibility of loaded micro-organisms in bio-magnetic separation. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 3809-3811.	2.1	23
126	Magnetic filtration studies using a permanently magnetised matrix. <i>IEEE Transactions on Magnetics</i> , 1987, 23, 2755-2757.	2.1	0

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127	Superconducting high gradient magnetic separator incorporating a current carrying wire matrix. IEEE Transactions on Magnetics, 1985, 21, 2056-2058.	2.1	1
128	The Relationship Between Dielectrophoretic and Impedance Response of Dielectric Particles Immersed in Aqueous Media. IEEE Transactions on Industry Applications, 1985, IA-21, 1300-1305.	4.9	4
129	The recovery of gold and uranium from gold ore leached residues by HGMS. IEEE Transactions on Magnetics, 1983, 19, 2136-2138.	2.1	7
130	Dielectrophoresis of microscopic particles. Journal Physics D: Applied Physics, 1979, 12, L109-L112.	2.8	8
131	Analysis of market development for photovoltaics. , 0, , .		0
132	Photovoltaic power for refrigeration of transported perishable goods. , 0, , .		6
133	Electrical connector contact resistance behaviour within a PV shingle roof. , 0, , .		1
134	Post installation optimisation of a building integrated PV system at Southampton University. , 0, , .		1
135	Economics of solar powered refrigeration transport applications. , 0, , .		2