

Anthony M Vassallo

List of Publications by Year in descending order

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59
papers

2,398
citations

172457

29
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206112

48
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60
all docs

60
docs citations

60
times ranked

2536
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Speciation of Zinc-Halide Complexes in Zinc/Bromine Flow Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070522.	2.9	7
2	Optimal sizing and operating strategy of a stand-alone generation-load-storage system: An island case study. <i>Energy Storage</i> , 2020, 2, e102.	4.3	7
3	Synergic integration of desalination and electric vehicle loads with hybrid microgrid sizing and control: An Island Case Study. <i>Energy Storage</i> , 2020, 2, e104.	4.3	5
4	Optimization of a stand-alone photovoltaic-wind-diesel-battery system with multi-layered demand scheduling. <i>Renewable Energy</i> , 2019, 131, 333-347.	8.9	48
5	Residential battery sizing model using net meter energy data clustering. <i>Applied Energy</i> , 2019, 251, 113324.	10.1	23
6	The impact of battery energy storage for renewable energy power grids in Australia. <i>Energy</i> , 2019, 173, 647-657.	8.8	84
7	Integrated Power-to-Gas and Gas-to-Power with Air and Natural-Gas Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1322-1340.	3.7	1
8	Energy cost minimization through optimization of EV, home and workplace battery storage. <i>Science China Technological Sciences</i> , 2018, 61, 761-773.	4.0	10
9	The influence of a chloride-based supporting electrolyte on electrodeposited zinc in zinc/bromine flow batteries. <i>Electrochimica Acta</i> , 2018, 292, 903-913.	5.2	9
10	The influence of novel bromine sequestration agents on zinc/bromine flow battery performance. <i>RSC Advances</i> , 2016, 6, 110548-110556.	3.6	47
11	Half-Cell Electrochemical Performance of Hybridized Ionic Liquid Additives for Zinc/Bromine Flow Battery Applications. <i>ECS Transactions</i> , 2016, 72, 33-55.	0.5	2
12	A logic-based geometrical model for the next day operation of PV-battery systems. <i>Journal of Energy Storage</i> , 2016, 7, 181-194.	8.1	8
13	Technoeconomic parametric analysis of PV-battery systems. <i>Renewable Energy</i> , 2016, 97, 757-768.	8.9	66
14	The influence of ionic liquid additives on zinc half-cell electrochemical performance in zinc/bromine flow batteries. <i>RSC Advances</i> , 2016, 6, 27788-27797.	3.6	45
15	The Influence of Supporting Electrolytes on Zinc Half-Cell Performance in Zinc/Bromine Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A5112-A5117.	2.9	35
16	Characteristics and catalytic properties of Ni/CaAlO _x catalyst for hydrogen-enriched syngas production from pyrolysis-steam reforming of biomass sawdust. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 168-175.	20.2	132
17	Planning and operation scheduling of PV-battery systems: A novel methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 194-208.	16.4	109
18	Half-Cell Electrochemical Performance and Cost-Benefit Analysis of Utilizing Hybrid Ionic Liquids in Zinc/Bromine Flow Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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19	The Interactions Between Chlorides and Zn(001) Surfaces in Zinc/Bromine Flow Battery Electrolytes. ECS Meeting Abstracts, 2016, , .	0.0	0
20	Leaving the grid: An ambition or a real choice?. Energy Policy, 2015, 82, 207-221.	8.8	115
21	A Compact, Highly Efficient and Flexible Polymer Ultra-Wideband Antenna. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1207-1210.	4.0	43
22	Electricity Storage: Renewable Energy Applications in the Australian Context. IEEE Electrification Magazine, 2015, 3, 22-29.	1.8	27
23	Effect of surface transport properties on the performance of carbon plastic electrodes for flow battery applications. Electrochimica Acta, 2014, 148, 104-110.	5.2	16
24	Experimentally validated model for atmospheric water generation using a solar assisted desiccant dehumidification system. Energy and Buildings, 2014, 77, 236-246.	6.7	55
25	Design and Modeling of Trailer Battery Energy Storage for Range Extension of Electric Vehicles. Journal of Asian Electric Vehicles, 2014, 12, 1699-1704.	0.4	1
26	Potential for solar-assisted post-combustion carbon capture in Australia. Applied Energy, 2013, 111, 175-185.	10.1	54
27	Evaluation of using thermoelectric coolers in a dehumidification system to generate freshwater from ambient air. Chemical Engineering Science, 2011, 66, 2491-2501.	3.8	88
28	Measurement and modelling of the high-power performance of carbon-based supercapacitors. Journal of Power Sources, 2000, 91, 68-76.	7.8	87
29	Study of the Oxidation of Oil Shale and Kerogen by Fourier Transform Infrared Emission Spectroscopy. Energy & Fuels, 1998, 12, 682-688.	5.1	13
30	The Dehydroxylation of the Kaolinite Clay Minerals using Infrared Emission Spectroscopy. Clays and Clay Minerals, 1996, 44, 635-651.	1.3	276
31	Solid-state cadmium-113 NMR of three structural isomers of hexadecakis(benzenethiolato)tetrasulfidodecacadmiate(4-). Inorganic Chemistry, 1993, 32, 66-72.	4.0	45
32	An investigation of thermal transformations of the products of oil shale demineralization using infrared emission spectroscopy. Energy & Fuels, 1993, 7, 319-325.	5.1	26
33	Preparation of hydrofullerenes by hydrogen radical induced hydrogenation. The Journal of Physical Chemistry, 1993, 97, 6329-6331.	2.9	128
34	¹³ C NMR Spectroscopy of Pyridine and Alkylpyridines Sorbed onto Coal. Advances in Chemistry Series, 1992, , 201-216.	0.6	0
35	Fullerenes from coal: a self-consistent preparation and purification process. Energy & Fuels, 1992, 6, 176-179.	5.1	39
36	Thermogravimetric analysis of buckminsterfullerene and related materials in air. The Journal of Physical Chemistry, 1992, 96, 17-18.	2.9	56

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37	Improved separation of fullerene-60 and -70. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 60.	2.0	43
38	CRAMPS determined proton aromaticities of Australian coals: a comparison with dipolar dephasing. <i>Energy & Fuels</i> , 1992, 6, 28-34.	5.1	7
39	Infrared emission spectroscopy of coal. <i>Fuel</i> , 1992, 71, 469-470.	6.4	12
40	Tetraethyl lead as a coal liquefaction promoter. <i>Fuel</i> , 1992, 71, 401-407.	6.4	4
41	Origins of humus variation. Effects of leaching and seasonal flooding on aromaticity. <i>Organic Geochemistry</i> , 1991, 17, 85-91.	1.8	16
42	A high resolution solid state nuclear magnetic resonance study of some coaly source rocks from the Brent group (North Sea). <i>Organic Geochemistry</i> , 1991, 17, 107-111.	1.8	7
43	Fullerenes from coal. <i>Nature</i> , 1991, 352, 480-480.	27.8	75
44	Chemistry of alkali extraction of brown coals. I. Kinetics, characterisation and implications to coalification. <i>Organic Geochemistry</i> , 1990, 16, 853-864.	1.8	23
45	Studies of angiospermous wood in Australian brown coal by nuclear magnetic resonance and analytical pyrolysis: new insights into the early coalification process. <i>International Journal of Coal Geology</i> , 1989, 13, 99-126.	5.0	64
46	Hydrogen evolution during alkali digestion of brown coal. <i>Fuel</i> , 1989, 68, 253-254.	6.4	3
47	The chemical structure of highly aromatic humic acids in three volcanic ash soils as determined by dipolar dephasing NMR studies. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 125-130.	3.9	65
48	Promotion of coal liquefaction by iodomethane. 2. Reaction of coal model compounds with iodomethane at coal liquefaction temperatures. <i>Energy & Fuels</i> , 1989, 3, 59-64.	5.1	9
49	Promotion of coal liquefaction by iodomethane. 1. <i>Energy & Fuels</i> , 1988, 2, 539-547.	5.1	12
50	A compositional and solid-state nuclear magnetic resonance study of humic and fulvic acid fractions of soil organic matter. <i>Analytical Chemistry</i> , 1987, 59, 551-558.	6.5	84
51	Selective loss of carbohydrates from plant remains during coalification. <i>Organic Geochemistry</i> , 1987, 11, 265-271.	1.8	37
52	Structural analysis of geochemical samples by solid-state nuclear magnetic resonance spectrometry. Role of paramagnetic material. <i>Analytical Chemistry</i> , 1987, 59, 558-562.	6.5	73
53	The chemical and physical structure of hydrogenation residues of maceral concentrates. <i>Fuel Processing Technology</i> , 1986, 13, 243-260.	7.2	8
54	Origins of line multiplicity in the high-resolution solid-state spectra of 1,2,3,4,5,6,7,8-octahydroanthracene, other related hydroaromatics and some methoxy compounds. <i>The Journal of Physical Chemistry</i> , 1986, 90, 3944-3948.	2.9	13

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55	Developments in high-resolution solid-state ¹³ C NMR spectroscopy of coals. <i>Organic Geochemistry</i> , 1985, 8, 299-312.	1.8	42
56	Cross-polarization n.m.r. as a tool to investigate solvent-coal molecular interactions. <i>Fuel</i> , 1984, 63, 571-573.	6.4	14
57	Fate of ¹³ C-labelled alkyl groups on reductively alkylated Liddell coal during hydrogenation at 400°C. <i>Fuel</i> , 1984, 63, 1236-1240.	6.4	9
58	High-resolution carbon-13 nuclear magnetic resonance spectrometry and relaxation behavior of organic solids from fossil fuels. <i>Analytical Chemistry</i> , 1984, 56, 433-436.	6.5	34
59	The nature of olefins and carboxyl groups in an Australian brown coal resin. <i>Organic Geochemistry</i> , 1984, 7, 161-168.	1.8	34