

# Anthony M Vassallo

## List of Publications by Year in descending order

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59  
papers

2,398  
citations

172457

29  
h-index

206112

48  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2536  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dehydroxylation of the Kaolinite Clay Minerals using Infrared Emission Spectroscopy. <i>Clays and Clay Minerals</i> , 1996, 44, 635-651.	1.3	276
2	Characteristics and catalytic properties of Ni/CaAlO <sub>x</sub> 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
3	Preparation of hydrofullerenes by hydrogen radical induced hydrogenation. <i>The Journal of Physical Chemistry</i> , 1993, 97, 6329-6331.	2.9	128
4	Leaving the grid: An ambition or a real choice?. <i>Energy Policy</i> , 2015, 82, 207-221.	8.8	115
5	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
6	Evaluation of using thermoelectric coolers in a dehumidification system to generate freshwater from ambient air. <i>Chemical Engineering Science</i> , 2011, 66, 2491-2501.	3.8	88
7	Measurement and modelling of the high-power performance of carbon-based supercapacitors. <i>Journal of Power Sources</i> , 2000, 91, 68-76.	7.8	87
8	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
9	The impact of battery energy storage for renewable energy power grids in Australia. <i>Energy</i> , 2019, 173, 647-657.	8.8	84
10	Fullerenes from coal. <i>Nature</i> , 1991, 352, 480-480.	27.8	75
11	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
12	Technoeconomic parametric analysis of PV-battery systems. <i>Renewable Energy</i> , 2016, 97, 757-768.	8.9	66
13	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
14	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
15	Thermogravimetric analysis of buckminsterfullerene and related materials in air. <i>The Journal of Physical Chemistry</i> , 1992, 96, 17-18.	2.9	56
16	Experimentally validated model for atmospheric water generation using a solar assisted desiccant dehumidification system. <i>Energy and Buildings</i> , 2014, 77, 236-246.	6.7	55
17	Potential for solar-assisted post-combustion carbon capture in Australia. <i>Applied Energy</i> , 2013, 111, 175-185.	10.1	54
18	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

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19	The influence of novel bromine sequestration agents on zinc/bromine flow battery performance. RSC Advances, 2016, 6, 110548-110556.	3.6	47
20	Solid-state cadmium-113 NMR of three structural isomers of hexadecakis(benzenethiolato)tetrasulfidodecacadmiate(4-). Inorganic Chemistry, 1993, 32, 66-72.	4.0	45
21	The influence of ionic liquid additives on zinc half-cell electrochemical performance in zinc/bromine flow batteries. RSC Advances, 2016, 6, 27788-27797.	3.6	45
22	Improved separation of fullerene-60 and -70. Journal of the Chemical Society Chemical Communications, 1992, , 60.	2.0	43
23	A Compact, Highly Efficient and Flexible Polymer Ultra-Wideband Antenna. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1207-1210.	4.0	43
24	Developments in high-resolution solid-state <sup>13</sup> C NMR spectroscopy of coals. Organic Geochemistry, 1985, 8, 299-312.	1.8	42
25	Fullerenes from coal: a self-consistent preparation and purification process. Energy & Fuels, 1992, 6, 176-179.	5.1	39
26	Selective loss of carbohydrates from plant remains during coalification. Organic Geochemistry, 1987, 11, 265-271.	1.8	37
27	The Influence of Supporting Electrolytes on Zinc Half-Cell Performance in Zinc/Bromine Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A5112-A5117.	2.9	35
28	High-resolution carbon-13 nuclear magnetic resonance spectrometry and relaxation behavior of organic solids from fossil fuels. Analytical Chemistry, 1984, 56, 433-436.	6.5	34
29	The nature of olefins and carboxyl groups in an Australian brown coal resin. Organic Geochemistry, 1984, 7, 161-168.	1.8	34
30	Electricity Storage: Renewable Energy Applications in the Australian Context. IEEE Electrification Magazine, 2015, 3, 22-29.	1.8	27
31	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
32	Chemistry of alkali extraction of brown coals. Kinetics, characterisation and implications to coalification. Organic Geochemistry, 1990, 16, 853-864.	1.8	23
33	Residential battery sizing model using net meter energy data clustering. Applied Energy, 2019, 251, 113324.	10.1	23
34	Origins of humus variation. Effects of leaching and seasonal flooding on aromaticity. Organic Geochemistry, 1991, 17, 85-91.	1.8	16
35	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
36	Cross-polarization n.m.r. as a tool to investigate solvent-coal molecular interactions. Fuel, 1984, 63, 571-573.	6.4	14

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37	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. The Journal of Physical Chemistry, 1986, 90, 3944-3948.	2.9	13
38	Study of the Oxidation of Oil Shale and Kerogen by Fourier Transform Infrared Emission Spectroscopy. Energy & Fuels, 1998, 12, 682-688.	5.1	13
39	Promotion of coal liquefaction by iodomethane. 1. Energy & Fuels, 1988, 2, 539-547.	5.1	12
40	Infrared emission spectroscopy of coal. Fuel, 1992, 71, 469-470.	6.4	12
41	Energy cost minimization through optimization of EV, home and workplace battery storage. Science China Technological Sciences, 2018, 61, 761-773.	4.0	10
42	Fate of <sup>13</sup> C-labelled alkyl groups on reductively alkylated Liddell coal during hydrogenation at 400°C. Fuel, 1984, 63, 1236-1240.	6.4	9
43	Promotion of coal liquefaction by iodomethane. 2. Reaction of coal model compounds with iodomethane at coal liquefaction temperatures. Energy & Fuels, 1989, 3, 59-64.	5.1	9
44	The influence of a chloride-based supporting electrolyte on electrodeposited zinc in zinc/bromine flow batteries. Electrochimica Acta, 2018, 292, 903-913.	5.2	9
45	The chemical and physical structure of hydrogenation residues of maceral concentrates. Fuel Processing Technology, 1986, 13, 243-260.	7.2	8
46	A logic-based geometrical model for the next day operation of PV-battery systems. Journal of Energy Storage, 2016, 7, 181-194.	8.1	8
47	A high resolution solid state nuclear magnetic resonance study of some coaly source rocks from the Brent group (North Sea). Organic Geochemistry, 1991, 17, 107-111.	1.8	7
48	CRAMPS determined proton aromaticities of Australian coals: a comparison with dipolar dephasing. Energy & Fuels, 1992, 6, 28-34.	5.1	7
49	Optimal sizing and operating strategy of a stand-alone generation-load-storage system: An island case study. Energy Storage, 2020, 2, e102.	4.3	7
50	Chemical Speciation of Zinc-Halide Complexes in Zinc/Bromine Flow Battery Electrolytes. Journal of the Electrochemical Society, 2021, 168, 070522.	2.9	7
51	Synergic integration of desalination and electric vehicle loads with hybrid micro-grid sizing and control: An Island Case Study. Energy Storage, 2020, 2, e104.	4.3	5
52	Tetraethyl lead as a coal liquefaction promoter. Fuel, 1992, 71, 401-407.	6.4	4
53	Hydrogen evolution during alkali digestion of brown coal. Fuel, 1989, 68, 253-254.	6.4	3
54	Half-Cell Electrochemical Performance of Hybridized Ionic Liquid Additives for Zinc/Bromine Flow Battery Applications. ECS Transactions, 2016, 72, 33-55.	0.5	2

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55	Integrated Power-to-Gas and Gas-to-Power with Air and Natural-Gas Storage. Industrial & Engineering Chemistry Research, 2019, 58, 1322-1340.	3.7	1
56	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
57	<sup>13</sup> C NMR Spectroscopy of Pyridine and Alkylpyridines Sorbed onto Coal. Advances in Chemistry Series, 1992, , 201-216.	0.6	0
58	Half-Cell Electrochemical Performance and Cost-Benefit Analysis of Utilizing Hybrid Ionic Liquids in Zinc/Bromine Flow Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
59	The Interactions Between Chlorides and Zn(001) Surfaces in Zinc/Bromine Flow Battery Electrolytes. ECS Meeting Abstracts, 2016, , .	0.0	0