

Armand J Atanacio

List of Publications by Year in descending order

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54
papers

1,011
citations

516215

16
h-index

454577

30
g-index

54
all docs

54
docs citations

54
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled pore structure modification of diatoms by atomic layer deposition of TiO ₂ . Journal of Materials Chemistry, 2006, 16, 4029.	6.7	116
2	Gold Nanoparticle Incorporation into Porous Titania Networks Using an Agarose Gel Templating Technique for Photocatalytic Applications. Chemistry of Materials, 2008, 20, 3917-3926.	3.2	103
3	Mechanical properties and adhesion characteristics of hybrid sol-gel thin films. Surface and Coatings Technology, 2005, 192, 354-364.	2.2	85
4	Towards sustainable energy. Generation of hydrogen fuel using nuclear energy. International Journal of Hydrogen Energy, 2016, 41, 12812-12825.	3.8	75
5	Photocatalytic Properties of TiO ₂ : Evidence of the Key Role of Surface Active Sites in Water Oxidation. Journal of Physical Chemistry A, 2015, 119, 9465-9473.	1.1	44
6	Photocatalytic properties of TiO ₂ : Effect of niobium and oxygen activity on partial water oxidation. Applied Catalysis B: Environmental, 2016, 198, 243-253.	10.8	37
7	Mercury diffusion in gold and silver thin film electrodes on quartz crystal microbalance sensors. Sensors and Actuators B: Chemical, 2009, 137, 246-252.	4.0	36
8	Application of positive matrix factorization, multi-linear engine and back trajectory techniques to the quantification of coal-fired power station pollution in metropolitan Sydney. Atmospheric Environment, 2012, 61, 204-211.	1.9	36
9	Mercury vapor sensor enhancement by nanostructured gold deposited on nickel surfaces using galvanic replacement reactions. Journal of Materials Chemistry, 2012, 22, 21395.	6.7	33
10	Effect of Indium Segregation on the Surface versus Bulk Chemistry for Indium-Doped TiO ₂ . ACS Applied Materials & Interfaces, 2012, 4, 6626-6634.	4.0	33
11	Niobium Segregation in Niobium-Doped Titanium Dioxide (Rutile). Journal of Physical Chemistry C, 2014, 118, 11174-11185.	1.5	27
12	Bulk Diffusion of Niobium in Single-Crystal Titanium Dioxide. Journal of Physical Chemistry B, 2007, 111, 8126-8130.	1.2	24
13	Enhanced biocompatibility of PDMS (polydimethylsiloxane) polymer films by ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 161-163.	0.6	23
14	Robust observational constraint of uncertain aerosol processes and emissions in a climate model and the effect on aerosol radiative forcing. Atmospheric Chemistry and Physics, 2020, 20, 9491-9524.	1.9	22
15	Reducing mortality risk by targeting specific air pollution sources: Suva, Fiji. Science of the Total Environment, 2018, 612, 450-461.	3.9	20
16	Fabrication, Structural Characterization and Testing of a Nanostructured Tin Oxide Gas Sensor. IEEE Sensors Journal, 2009, 9, 563-568.	2.4	18
17	Chemical characterisation and source identification of atmospheric aerosols in the Snowy Mountains, south-eastern Australia. Science of the Total Environment, 2018, 630, 432-443.	3.9	15
18	Characterisation of phase relations and properties in air-oxidised Ti ₃ SiC ₂ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 466, 140-147.	2.6	14

#	ARTICLE	IF	CITATIONS
19	MABI - A multi-wavelength absorption black carbon instrument for the measurement of fine light absorbing carbon particles. Atmospheric Pollution Research, 2021, 12, 133-140.	1.8	14
20	Mo-doped, Cr-Doped, and Mo-Cr codoped TiO ₂ thin-film photocatalysts by comparative sol-gel spin coating and ion implantation. International Journal of Hydrogen Energy, 2021, 46, 12961-12980.	3.8	13
21	Toward sustainable energy: photocatalysis of Cr-doped TiO ₂ : 2. effect of defect disorder. Ionics, 2018, 24, 327-341.	1.2	12
22	Niobium diffusion in niobium-doped titanium dioxide. Journal of Solid State Electrochemistry, 2009, 13, 1115-1121.	1.2	11
23	Electrical Properties and Defect Chemistry of Indium-Doped TiO ₂ : Electrical Conductivity. ECS Journal of Solid State Science and Technology, 2014, 3, P330-P339.	0.9	11
24	Electrical conductivity and defect disorder of tantalum-doped TiO ₂ . Journal of the American Ceramic Society, 2017, 100, 4088-4100.	1.9	11
25	Effect of grain size on Hertzian contact damage in 9 mol% Ce-TZP ceramics. Journal of the European Ceramic Society, 2002, 22, 1971-1979.	2.8	10
26	Incorporation and activation of arsenic in MBE-grown HgCdTe. Semiconductor Science and Technology, 2008, 23, 015014.	1.0	10
27	Intrinsic and boron-enhanced hydrogen diffusion in amorphous silicon formed by ion implantation. Applied Physics Letters, 2009, 95, 101911.	1.5	10
28	Impact of aerosols of sea salt origin in a coastal basin: Sydney, Australia. Atmospheric Environment, 2019, 207, 52-62.	1.9	10
29	Photocatalytic properties of Ta-doped TiO ₂ . Ionics, 2017, 23, 3517-3531.	1.2	9
30	Effect of Oxygen Activity on Surface Composition of In-Doped TiO ₂ at Elevated Temperatures. Journal of Physical Chemistry C, 2012, 116, 19246-19251.	1.5	8
31	Diffusion Kinetics of Indium in TiO ₂ (Rutile). Journal of the American Ceramic Society, 2013, 96, 1366-1371.	1.9	8
32	Segregation in Titanium Dioxide Co-Doped with Indium and Niobium. Journal of the American Ceramic Society, 2017, 100, 419-428.	1.9	8
33	Long term fine aerosols at the Cape Grim global baseline station: 1998 to 2016. Atmospheric Environment, 2017, 166, 34-46.	1.9	8
34	Toward sustainable energy: photocatalysis of Cr-doped TiO ₂ : 1. electronic structure. Ionics, 2018, 24, 309-325.	1.2	8
35	Ion beam techniques for source fingerprinting fine particle air pollution in major Asian-Pacific cities. Nuclear Instruments & Methods in Physics Research B, 2020, 477, 122-132.	0.6	8
36	Determination of niobium diffusion in titania and zirconia using secondary ion mass spectrometry. Advances in Applied Ceramics, 2007, 106, 89-94.	0.6	7

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37	A new approach to the combination of IBA techniques and wind back trajectory data to determine source contributions to long range transport of fine particle air pollution. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 186-188.	0.6	7
38	Surface Segregation of Niobium and Tantalum in Titanium Dioxide. Overview. Journal of the American Ceramic Society, 2016, 99, 1512-1519.	1.9	7
39	Sources of Particulate Matter in the Hunter Valley, New South Wales, Australia. Atmosphere, 2020, 11, 4.	1.0	7
40	Characterization, source apportionment and associated health risk assessment of respirable air particulates in Metro Manila, Philippines. Atmospheric Pollution Research, 2022, 13, 101379.	1.8	7
41	The impact of closure of coal-fired power stations on aerosol concentrations in the Sydney Basin. Atmospheric Pollution Research, 2018, 9, 1167-1176.	1.8	6
42	Phase-oriented surface segregation in an aluminium casting alloy. Applied Surface Science, 2009, 255, 4880-4885.	3.1	5
43	Defect Engineering of Photosensitive Oxide Materials. Example of TiO ₂ Solid Solutions. Advances in Inorganic Chemistry, 2018, , 1-47.	0.4	5
44	Fatigue damage mechanisms in CeO ₂ stabilized tetragonal ZrO ₂ . Journal of Materials Science Letters, 2002, 21, 879-882.	0.5	4
45	Long term PM _{2.5} trends in the Australian industrial city of Newcastle: a 15-year study from 1998 to 2013. Environmental Chemistry, 2014, 11, 644.	0.7	4
46	Electrical properties and defect chemistry of indium-doped TiO ₂ . Thermoelectric power. Ionics, 2015, 21, 2019-2029.	1.2	4
47	Towards sustainable energy: photocatalysis of Cr-doped TiO ₂ . 5. Effect of segregation on surface versus bulk composition. Ionics, 2018, 24, 1211-1219.	1.2	4
48	Baseline characterisation of source contributions to daily-integrated PM _{2.5} observations at Cape Grim using Radon-222. Environmental Pollution, 2018, 243, 37-48.	3.7	4
49	Reactivity between In ₂ O ₃ and TiO ₂ (rutile) studied using secondary ion mass spectrometry (SIMS). Separation and Purification Technology, 2012, 91, 96-102.	3.9	3
50	Atomic layer deposition of SiO ₂ on porous alumina membranes: controlling the pore size and transport properties. , 2008, , .		2
51	Surface Modifications of TiO ₂ by Ion Implantation. Materials Science Forum, 0, 783-786, 1674-1679.	0.3	2
52	Towards sustainable energy. Photocatalysis of Cr-doped TiO ₂ : 3. Effect of oxygen activity. Ionics, 2018, 24, 861-872.	1.2	2
53	Fingerprinting Australian soils based on their source location. Atmospheric Pollution Research, 2021, 12, 173-183.	1.8	1
54	SIMS investigation of oxygen in 3C-SiC on Si. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	0