

Clara Piccirillo

List of Publications by Year in descending order

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92
papers

3,936
citations

136950

32
h-index

128289

60
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92
all docs

92
docs citations

92
times ranked

5174
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition and Microstructure of Cobalt Oxide Thin Films Obtained from a Novel Cobalt(II) Precursor by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2001, 13, 588-593.	6.7	570
2	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. <i>Biomaterials</i> , 2009, 30, 89-93.	11.4	231
3	Energy modelling studies of thermochromic glazing. <i>Energy and Buildings</i> , 2010, 42, 1666-1673.	6.7	175
4	Oxygen vacancies, the optical band gap (E _g) and photocatalysis of hydroxyapatite: Comparing modelling with measured data. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 100-107.	20.2	146
5	Synthesis and Functional Properties of Vanadium Oxides: V ₂ O ₃ , VO ₂ , and V ₂ O ₅ Deposited on Glass by Aerosol-Assisted CVD. <i>Chemical Vapor Deposition</i> , 2007, 13, 145-151.	1.3	136
6	Doped and un-doped vanadium dioxide thin films prepared by atmospheric pressure chemical vapour deposition from vanadyl acetylacetonate and tungsten hexachloride: the effects of thickness and crystallographic orientation on thermochromic properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 4652.	6.7	134
7	Extraction and characterisation of apatite- and tricalcium phosphate-based materials from cod fish bones. <i>Materials Science and Engineering C</i> , 2013, 33, 103-110.	7.3	129
8	Atmospheric pressure chemical vapour deposition of thermochromic tungsten doped vanadium dioxide thin films for use in architectural glazing. <i>Thin Solid Films</i> , 2009, 517, 4565-4570.	1.8	111
9	Nano-composite thermochromic thin films and their application in energy-efficient glazing. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 141-151.	6.2	99
10	Extraction of high added value biological compounds from sardine, sardine-type fish and mackerel canning residues "A review". <i>Materials Science and Engineering C</i> , 2013, 33, 3111-3120.	7.3	99
11	Biodegradation of Diclofenac by the bacterial strain <i>Labrys portucalensis</i> F11. <i>Ecotoxicology and Environmental Safety</i> , 2018, 152, 104-113.	6.0	94
12	Synthesis and characterisation of W-doped VO ₂ by Aerosol Assisted Chemical Vapour Deposition. <i>Thin Solid Films</i> , 2008, 516, 1992-1997.	1.8	91
13	Antimicrobial activity of methylene blue and toluidine blue O covalently bound to a modified silicone polymer surface. <i>Journal of Materials Chemistry</i> , 2009, 19, 6167.	6.7	83
14	Silver-Modified Nano-titania as an Antibacterial Agent and Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4751-4766.	3.1	81
15	Calcium hydroxyapatite-based photocatalysts for environment remediation: Characteristics, performances and future perspectives. <i>Journal of Environmental Management</i> , 2017, 193, 79-91.	7.8	78
16	Nb-Doped VO ₂ Thin Films Prepared by Aerosol-Assisted Chemical Vapour Deposition. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4050-4055.	2.0	77
17	Bacteria immobilisation on hydroxyapatite surface for heavy metals removal. <i>Journal of Environmental Management</i> , 2013, 121, 87-95.	7.8	77
18	Antibacterial Activity of Light-Activated Silicone Containing Methylene Blue and Gold Nanoparticles of Different Sizes. <i>Journal of Cluster Science</i> , 2010, 21, 427-438.	3.3	62

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19	Toluidine blue-containing polymers exhibit potent bactericidal activity when irradiated with red laser light. <i>Journal of Materials Chemistry</i> , 2009, 19, 2715.	6.7	59
20	Hybrid Aerosol Assisted and Atmospheric Pressure CVD of Gold-Doped Vanadium Dioxide. <i>Chemical Vapor Deposition</i> , 2008, 14, 33-39.	1.3	58
21	Cassava (<i>Manihot esculenta</i> Crantz) and Yam (<i>Dioscorea</i> spp.) Crops and Their Derived Foodstuffs: Safety, Security and Nutritional Value. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2714-2727.	10.3	58
22	Calcium phosphate-based materials of natural origin showing photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6452.	10.3	57
23	Photodegradation of pharmaceutical persistent pollutants using hydroxyapatite-based materials. <i>Journal of Environmental Management</i> , 2016, 182, 486-495.	7.8	55
24	Hydroxyapatite-based materials of marine origin: A bioactivity and sintering study. <i>Materials Science and Engineering C</i> , 2015, 51, 309-315.	7.3	53
25	A hydroxyapatite-Fe ₂ O ₃ based material of natural origin as an active sunscreen filter. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5999-6009.	5.8	50
26	Light induced antibacterial activity and photocatalytic properties of Ag/Ag ₃ PO ₄ -based material of marine origin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 296, 40-47.	3.9	50
27	Bioconversion of oleuropein to hydroxytyrosol by lactic acid bacteria. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 2435-2440.	3.6	48
28	Biphasic apatite-carbon materials derived from pyrolysed fish bones for effective adsorption of persistent pollutants and heavy metals. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4884-4894.	6.7	47
29	Thermochromic Coatings for Intelligent Architectural Glazing. <i>Journal of Nano Research</i> , 0, 2, 1-20.	0.8	46
30	Tungsten doped vanadium dioxide thin films prepared by atmospheric pressure chemical vapour deposition from vanadyl acetylacetonate and tungsten hexachloride. <i>Surface and Coatings Technology</i> , 2007, 201, 9369-9372.	4.8	43
31	Photocatalytic Degradation of Diclofenac by Hydroxyapatite-TiO ₂ Composite Material: Identification of Transformation Products and Assessment of Toxicity. <i>Materials</i> , 2018, 11, 1779.	2.9	41
32	Hydroxyapatite and chloroapatite derived from sardine by-products. <i>Ceramics International</i> , 2014, 40, 13231-13240.	4.8	36
33	Aerosol assisted chemical vapour deposition of hydroxyapatite-embedded titanium dioxide composite thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 45-53.	3.9	36
34	Films of chitosan and natural modified hydroxyapatite as effective UV-protecting, biocompatible and antibacterial wound dressings. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 1177-1185.	7.5	32
35	Effect of preparation and processing conditions on UV absorbing properties of hydroxyapatite-Fe ₂ O ₃ sunscreen. <i>Materials Science and Engineering C</i> , 2017, 71, 141-149.	7.3	30
36	Chemical composition and antibacterial properties of stem and leaf extracts from Ginja cherry plant. <i>Industrial Crops and Products</i> , 2013, 43, 562-569.	5.2	28

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37	Templated growth of smart coatings: Hybrid chemical vapour deposition of vanadyl acetylacetonate with tetraoctyl ammonium bromide. <i>Applied Surface Science</i> , 2009, 255, 7291-7295.	6.1	27
38	Effects of Cu, Zn and Cu-Zn addition on the microstructure and antibacterial and photocatalytic functional properties of Cu-Zn modified TiO ₂ nano-heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 330, 44-54.	3.9	27
39	Mussel Shell-Derived Macroporous 3D Scaffold: Characterization and Optimization Study of a Bioceramic from the Circular Economy. <i>Marine Drugs</i> , 2020, 18, 309.	4.6	26
40	Antimicrobial Properties of Light-activated Polyurethane Containing Indocyanine Green. <i>Journal of Biomaterials Applications</i> , 2011, 25, 387-400.	2.4	25
41	Templated growth of smart nanocomposite thin films: Hybrid aerosol assisted and atmospheric pressure chemical vapour deposition of vanadyl acetylacetonate, auric acid and tetraoctyl ammonium bromide. <i>Polyhedron</i> , 2009, 28, 2233-2239.	2.2	24
42	Silver-containing calcium phosphate materials of marine origin with antibacterial activity. <i>Ceramics International</i> , 2015, 41, 10152-10159.	4.8	24
43	A sustainable replacement for TiO ₂ in photocatalyst construction materials: Hydroxyapatite-based photocatalytic additives, made from the valorisation of food wastes of marine origin. <i>Journal of Cleaner Production</i> , 2018, 193, 115-127.	9.3	22
44	Characterization and antimicrobial properties of food packaging methylcellulose films containing stem extract of Ginja cherry. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 2097-2103.	3.5	21
45	Nanostructured titanium dioxide coatings prepared by Aerosol Assisted Chemical Vapour Deposition (AACVD). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112727.	3.9	20
46	Surface chemistry of RuO ₂ /IrO ₂ /TiO ₂ mixed-oxide electrodes: secondary ion mass spectrometric study of the changes induced by electrochemical treatment. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2165-2169.	1.5	19
47	Titanium Dioxide Thin Films Deposited by Electric Field-Assisted CVD: Effect on Antimicrobial and Photocatalytic Properties. <i>Chemical Vapor Deposition</i> , 2015, 21, 63-70.	1.3	19
48	Luminescent calcium phosphate bioceramics doped with europium derived from fish industry byproducts. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3402-3414.	3.8	19
49	A sustainable multi-function biomorphic material for pollution remediation or UV absorption: Aerosol assisted preparation of highly porous ZnO-based materials from cork templates. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102936.	6.7	19
50	Nanoheterostructures (NHS) and Their Applications in Nanomedicine: Focusing on In Vivo Studies. <i>Materials</i> , 2019, 12, 139.	2.9	19
51	Study of the proximate and mineral composition of different Nigerian yam chips, flakes and flours. <i>Journal of Food Science and Technology</i> , 2018, 55, 42-51.	2.8	18
52	Secondary ion mass spectrometry in the characterisation of boron-based ceramics. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1-7.	1.5	17
53	Frictional properties of light-activated antimicrobial polymers in blood vessels. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 815-821.	3.6	17
54	Safety of Yam-Derived (<i>Dioscorea rotundata</i>) Foodstuffs' Chips, Flakes and Flour: Effect of Processing and Post-Processing Conditions. <i>Foods</i> , 2019, 8, 12.	4.3	17

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55	ZnS-containing industrial waste: Antibacterial activity and effects of thermal treatment temperature and atmosphere on photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019, 791, 971-982.	5.5	15
56	Temperature dependence of intrinsic infrared absorption in natural and chemical-vapor deposited diamond. <i>Journal of Applied Physics</i> , 2002, 92, 756-763.	2.5	13
57	A quantitative study of the boron acceptor in diamond by Fourier-transform photocurrent spectroscopy. <i>Diamond and Related Materials</i> , 2004, 13, 1785-1790.	3.9	13
58	Screening and molecular identification of lactic acid bacteria from gari and fufu and gari effluents. <i>Annals of Microbiology</i> , 2017, 67, 123-133.	2.6	13
59	Lipid-Based Nanovesicles for Simultaneous Intracellular Delivery of Hydrophobic, Hydrophilic, and Amphiphilic Species. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 690.	4.1	13
60	Employment of phosphate solubilising bacteria on fish scales – Turning food waste into an available phosphorus source. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103403.	6.7	12
61	Calcium Phosphate Particles Coated with Humic Substances: A Potential Plant Biostimulant from Circular Economy. <i>Molecules</i> , 2021, 26, 2810.	3.8	12
62	Investigation on boron-doped CVD samples. <i>Diamond and Related Materials</i> , 2002, 11, 338-341.	3.9	11
63	High Added-Value Compounds with Antibacterial Properties from Ginja Cherries By-products. <i>Waste and Biomass Valorization</i> , 2010, 1, 209-217.	3.4	11
64	Investigation of the formation of RuO ₂ -based mixed oxide coatings by secondary ion mass spectrometry. <i>Journal of Materials Chemistry</i> , 1996, 6, 567-571.	6.7	10
65	Secondary ion mass spectrometry characterization of IrO ₂ -Ta ₂ O ₅ thin films: effect of relative composition on electrode properties. , 1998, 12, 1574-1579.		10
66	Biomimetic calcium carbonate with hierarchical porosity produced using cork as a sustainable template agent. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103594.	6.7	10
67	Extraction of Valuable Compounds from Ginja Cherry By-Products: Effect of the Solvent and Antioxidant Properties. <i>Waste and Biomass Valorization</i> , 2011, 2, 365-371.	3.4	9
68	Increased UV absorption properties of natural hydroxyapatite-based sunscreen through laser ablation modification in liquid. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3163-3174.	3.8	9
69	Cork-derived hierarchically porous hydroxyapatite with different stoichiometries for biomedical and environmental applications. <i>Materials Chemistry Frontiers</i> , 0, , .	5.9	9
70	Determination of the Optical Constants of VO ₂ and Nb-Doped VO ₂ ; Thin Films. <i>Materials Science Forum</i> , 0, 587-588, 640-644.	0.3	8
71	Secondary ion mass spectrometric investigation on ruthenium oxide systems: a comparison between poly- and nanocrystalline deposits. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1179-1183.	1.5	7
72	The Temperature Dependence of the Infrared Absorption and Raman Spectra Due to Boron in Diamond. <i>Physica Status Solidi A</i> , 2002, 193, 529-534.	1.7	7

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73	Secondary ion mass spectrometric studies on the formation mechanism of IrO ₂ /TiO ₂ -based coatings. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1475-1479.	1.5	6
74	Investigation on the formation of RuO ₂ film electrode by secondary ion mass spectrometry. <i>Surface Science</i> , 1996, 348, 287-298.	1.9	6
75	Why Does Diamond Absorb Infra-Red Radiation?. <i>Physica Status Solidi A</i> , 2002, 193, 442-447.	1.7	6
76	Monodisperse and Nanometric-Sized Calcium Carbonate Particles Synthesis Optimization. <i>Nanomaterials</i> , 2022, 12, 1494.	4.1	6
77	Secondary Ion Mass Spectrometric Studies on the Formation Mechanism of IrO ₂ /ZrO ₂ Based Electrocatalytic Thin Films. , 1996, 10, 1881-1886.		5
78	Sustainable chitosan-based electrical responsive scaffolds for tissue engineering applications. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00260.	3.3	5
79	Poly(l-lactide-co-caprolactone-co-glycolide)-Based Nanoparticles as Delivery Platform: Effect of the Surfactants on Characteristics and Delivery Efficiency. <i>Nanomaterials</i> , 2022, 12, 1550.	4.1	4
80	Glass Sample Characterization by Secondary Ion Mass Spectrometry. , 1996, 10, 1286-1290.		3
81	Characterization of Dispersion-Hardened Electrodeposited Gold Composites. Part 1: SIMS and SEM Study of Powder Inclusions. <i>Chemistry of Materials</i> , 2000, 12, 2964-2970.	6.7	3
82	The variation of optical absorption of CVD diamond as a function of temperature. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 581-584.	2.7	3
83	Hybrid Aerosol Assisted Atmospheric Pressure Chemical Vapour Deposition: A Facile Route Toward Nano-Composite Thin Films?. <i>ECS Transactions</i> , 2009, 25, 773-780.	0.5	3
84	Surface modified hydroxyapatites with various functionalized nanostructures: Computational studies of the vacancies in HAp. <i>Ferroelectrics</i> , 2017, 509, 105-112.	0.6	3
85	UiO-67-derived bithiophene and bithiazole MIXMOFs for luminescence sensing and removal of contaminants of emerging concern in wastewater. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 90-102.	6.0	3
86	Study of ZrO ₂ Film Evolution by Secondary Ion Mass Spectrometry. , 1996, 10, 1769-1773.		2
87	Electroformed objects for jewelry: secondary ion mass spectrometry characterization of Au films from CN-free electrolytes. , 1998, 12, 857-863.		2
88	Cathodoluminescence study of H-implanted B-doped diamond samples. <i>Diamond and Related Materials</i> , 2004, 13, 944-947.	3.9	2
89	Secondary ion mass spectrometric investigation of Au-based composites. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2014-2019.	1.5	1
90	Optimisation of ThermoChromic Thin Films on Glass; Design of Intelligent Windows. <i>Advances in Science and Technology</i> , 0, , .	0.2	1

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91	Sims Characterization of Noble Metal-Based Thin Film Electrodes. Materials Science Forum, 1997, 235-238, 625-630.	0.3	0
92	Role of secondary ion mass spectrometric analysis in the brazing of precious alloys. , 1997, 11, 1309-1314.		0