

Maria Vittoria Diamanti

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,112
citations

257357

24
h-index

254106

43
g-index

83
all docs

83
docs citations

83
times ranked

2387
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of anodic oxidation parameters on the titanium oxides formation. <i>Corrosion Science</i> , 2007, 49, 939-948.	3.0	218
2	Effect of polymer modified cementitious coatings on water and chloride permeability in concrete. <i>Construction and Building Materials</i> , 2013, 49, 720-728.	3.2	149
3	Characterization of photocatalytic and superhydrophilic properties of mortars containing titanium dioxide. <i>Cement and Concrete Research</i> , 2008, 38, 1349-1353.	4.6	144
4	Interference colors of thin oxide layers on titanium. <i>Color Research and Application</i> , 2008, 33, 221-228.	0.8	131
5	Photocatalytic and self-cleaning activity of colored mortars containing TiO ₂ . <i>Construction and Building Materials</i> , 2013, 46, 167-174.	3.2	82
6	Molecular modelling and electrochemical evaluation of organic inhibitors in concrete. <i>Corrosion Science</i> , 2015, 100, 231-241.	3.0	62
7	Corrosion of Titanium: Part 1: Aggressive Environments and Main Forms of Degradation. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, e291-e302.	0.7	62
8	Photocatalytic behavior of different titanium dioxide layers. <i>Thin Solid Films</i> , 2007, 515, 6309-6313.	0.8	59
9	Anodic titanium oxide as immobilized photocatalyst in UV or visible light devices. <i>Journal of Hazardous Materials</i> , 2011, 186, 2103-2109.	6.5	57
10	Binders alternative to Portland cement and waste management for sustainable construction – part 1. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 186-202.	0.7	57
11	Absorption and photocatalytic degradation of VOCs by perfluorinated ionomeric coating with TiO ₂ nanopowders for air purification. <i>Chemical Engineering Journal</i> , 2019, 361, 885-896.	6.6	57
12	Long term self-cleaning and photocatalytic performance of anatase added mortars exposed to the urban environment. <i>Construction and Building Materials</i> , 2015, 96, 270-278.	3.2	56
13	Anodic oxidation of titanium: from technical aspects to biomedical applications. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 55-69.	0.4	44
14	Mutual interactions between carbonation and titanium dioxide photoactivity in concrete. <i>Building and Environment</i> , 2013, 62, 174-181.	3.0	44
15	Effect of thermal oxidation on titanium oxides' characteristics. <i>Journal of Experimental Nanoscience</i> , 2009, 4, 365-372.	1.3	41
16	Characterisation of titanium oxide films by potentiodynamic polarisation and electrochemical impedance spectroscopy. <i>Corrosion Engineering Science and Technology</i> , 2010, 45, 428-434.	0.7	41
17	Anodic coloring of titanium and its alloy for jewels production. <i>Color Research and Application</i> , 2012, 37, 384-390.	0.8	38
18	Effects of Photoactivated Titanium Dioxide Nanopowders and Coating on Planktonic and Biofilm Growth of <i>Pseudomonas aeruginosa</i> . <i>Photochemistry and Photobiology</i> , 2011, 87, 1387-1394.	1.3	35

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19	Application-wise nanostructuring of anodic films on titanium: a review. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1285-1308.	1.3	35
20	Heterostructured TiO ₂ /SiO ₂ /Fe ₂ O ₃ /rGO Coating with Highly Efficient Visible-Light-Induced Self-Cleaning Properties for Metallic Artifacts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29671-29683.	4.0	34
21	Self-cleaning building materials: The multifaceted effects of titanium dioxide. <i>Construction and Building Materials</i> , 2018, 182, 126-133.	3.2	29
22	Thickness of Anodic Titanium Oxides as a Function of Crystallographic Orientation of the Substrate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 2143-2147.	1.1	27
23	Multi-step anodizing on Ti6Al4V components to improve tribomechanical performances. <i>Surface and Coatings Technology</i> , 2013, 227, 19-27.	2.2	27
24	Memristive Electronic Synapses Made by Anodic Oxidation. <i>Chemistry of Materials</i> , 2019, 31, 8394-8401.	3.2	26
25	Production of Anodic TiO ₂ Nanofilms and their Characterization. <i>Physics Procedia</i> , 2013, 40, 30-37.	1.2	24
26	Intrinsic AuPt-alloy particles decorated on TiO ₂ nanotubes provide enhanced photocatalytic degradation. <i>Electrochimica Acta</i> , 2018, 292, 865-870.	2.6	24
27	Durability of self-cleaning cement-based materials. <i>Construction and Building Materials</i> , 2021, 280, 122442.	3.2	23
28	Effect of etching on the composition and structure of anodic spark deposition films on titanium. <i>Materials and Design</i> , 2016, 108, 77-85.	3.3	22
29	Alternating current anodizing of titanium in halogen acids combined with Anodic Spark Deposition: Morphological and structural variations. <i>Corrosion Science</i> , 2010, 52, 1824-1829.	3.0	21
30	UV-resistant amorphous fluorinated coating for anodized titanium surfaces. <i>Progress in Organic Coatings</i> , 2012, 74, 794-800.	1.9	21
31	TiO ₂ Nanotubes Arrays Loaded with Ligand-Free Au Nanoparticles: Enhancement in Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31051-31058.	4.0	20
32	Robust anodic colouring of titanium: Effect of electrolyte and colour durability. <i>Materials and Design</i> , 2016, 90, 1085-1091.	3.3	20
33	Anti-fingerprints fluorinated coating for anodized titanium avoiding color alteration. <i>Journal of Coatings Technology Research</i> , 2011, 8, 153-160.	1.2	19
34	Compatibility of Imidazolium-Based Ionic Liquids for CO ₂ Capture with Steel Alloys: a Corrosion Perspective. <i>Electrochimica Acta</i> , 2016, 192, 414-421.	2.6	19
35	Fabrication of dual-phase TiO ₂ /WO ₃ with post-illumination photocatalytic memory. <i>New Journal of Chemistry</i> , 2020, 44, 20375-20386.	1.4	18
36	Probing anodic oxidation kinetics and nanoscale heterogeneity within TiO ₂ films by Conductive Atomic Force Microscopy and combined techniques. <i>Electrochimica Acta</i> , 2014, 129, 203-210.	2.6	16

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37	A high-throughput technique for determining grain boundary character non-destructively in microstructures with through-thickness grains. <i>Npj Computational Materials</i> , 2016, 2, .	3.5	16
38	An insight into the evolution of corrosion resistant coatings on titanium during bipolar plasma electrolytic oxidation in sulfuric acid. <i>Electrochimica Acta</i> , 2021, 379, 138190.	2.6	16
39	Corrosion of titanium: Part 2: Effects of surface treatments. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 3-13.	0.7	15
40	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	1.3	15
41	Nanoscale Investigation of Photoinduced Hydrophilicity Variations in Anatase and Rutile Nanopowders. <i>Langmuir</i> , 2013, 29, 14512-14518.	1.6	14
42	Magnetically Recoverable TiO ₂ /SiO ₂ /Fe ³⁺ -Fe ₂ O ₃ /rGO Composite with Significantly Enhanced UV-Visible Light Photocatalytic Activity. <i>Molecules</i> , 2020, 25, 2996.	1.7	13
43	Mechanical characterization of an innovative dental implant system. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2009, 7, 23-8.	0.4	13
44	A novel nanotubular TiO ₂ -based Plug-Flow reactor for gas phase photocatalytic degradation of toluene. <i>Chemical Engineering Journal</i> , 2022, 437, 135323.	6.6	13
45	Effect of amorphous fluorinated coatings on photocatalytic properties of anodized titanium surfaces. <i>Thin Solid Films</i> , 2013, 545, 210-216.	0.8	12
46	TiO ₂ alterations with natural aging: Unveiling the role of nitric acid on NIR reflectance. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 791-797.	3.0	12
47	Photocatalytic Activity of Nanotubular TiO ₂ Films Obtained by Anodic Oxidation: A Comparison in Gas and Liquid Phase. <i>Materials</i> , 2018, 11, 488.	1.3	12
48	On the Growth of Thin Anodic Oxides Showing Interference Colors on Valve Metals. <i>Current Nanoscience</i> , 2015, 11, 307-316.	0.7	12
49	Decoupling the dual source of colour alteration of architectural titanium: Soiling or oxidation?. <i>Corrosion Science</i> , 2013, 72, 125-132.	3.0	11
50	Immobilized TiO ₂ nanoparticles produced by flame spray for photocatalytic water remediation. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	11
51	Effect of polymer modified cementitious coatings on chloride-induced corrosion of steel in concrete. <i>Structural Concrete</i> , 2020, 21, 1810-1822.	1.5	10
52	Multi-wall carbon nanostructured paper: characterization and potential applications definition. <i>Materials Research Express</i> , 2015, 2, 095601.	0.8	9
53	Underlying Mechanism of Time Dependent Surface Properties of Calcite (CaCO ₃): A Baseline for Investigations of Reservoirs Wettability. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29038-29043.	1.5	9
54	Anodic Oxidation as a Means to Produce Memristive Films. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, e290-e295.	0.7	9

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55	Immobilized Nano-TiO ₂ Photocatalysts for the Degradation of Three Organic Dyes in Single and Multi-Dye Solutions. <i>Coatings</i> , 2020, 10, 919.	1.2	8
56	Mechanistic insights into photogenerated electrons store-and-discharge in hydrogenated glucose template synthesized Pt: TiO ₂ /WO ₃ photocatalyst for the round-the-clock decomposition of methanol. <i>Materials Research Bulletin</i> , 2021, 137, 111203.	2.7	8
57	Photocatalytic and Antimicrobial Coatings by Electrodeposition of Silver/TiO ₂ Nano-Composites. <i>ECS Transactions</i> , 2013, 45, 1-6.	0.3	6
58	The Anodic Oxidation of Titanium and Its Alloys. , 2018, , 41-54.		6
59	Representing localized corrosion processes through cellular automata. <i>Corrosion Reviews</i> , 2011, 29, .	1.0	5
60	Hierarchical Anodic TiO ₂ Nanostructures Formed in Ethylene Glycol/H ₃ PO ₄ Electrolytes for Direct Photocatalysis. <i>ChemElectroChem</i> , 2020, 7, 2859-2863.	1.7	5
61	Evaluation of Additional Protection Methods to Control Reinforcement Corrosion. <i>Key Engineering Materials</i> , 0, 711, 37-44.	0.4	4
62	Key Oxidation Parameters that Influence Photo-Induced Properties and Applications of Anodic Titanium Oxides. <i>Journal of the Electrochemical Society</i> , 2016, 163, H119-H127.	1.3	4
63	Photocatalytic performance of mortars with nanoparticles exposed to the urban environment. , 2019, , 527-555.		4
64	On the Role of Î ³ -Fe ₂ O ₃ Nanoparticles and Reduced Graphene Oxide Nanosheets in Enhancing Self-Cleaning Properties of Composite TiO ₂ for Cultural Heritage Protection. <i>Coatings</i> , 2020, 10, 933.	1.2	4
65	Smart protection of surfaces during day-night by a novel composite self-cleaning coating with catalytic memory. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106891.	3.3	4
66	Nanotech-Based Cool Materials for Building Energy Efficiency. , 2016, , 245-278.		3
67	Effect of water content on the corrosiveness of imidazolium-based ionic liquids. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1658-1668.	0.8	3
68	Photocatalytic behaviour of anodised titanium using different cathodes. <i>Surface Engineering</i> , 2019, 35, 46-53.	1.1	3
69	Towards a better preservation of current and future outdoor architectural heritage; maximum suppression of discolouration in anodized and non-anodized titanium sheets. <i>Environmental Technology Reviews</i> , 2020, 9, 37-54.	2.1	3
70	Evaluation of Coatings to Improve the Durability and Water-Barrier Properties of Corrugated Cardboard. <i>Coatings</i> , 2022, 12, 10.	1.2	3
71	Tuning of Titanium Oxide Morphology at Micro and Nano Scale by Alternating Current Anodising. <i>Journal of Nano Research</i> , 2009, 6, 61-66.	0.8	2
72	General Parametrization of Persisting Long-Range Nanoscale Phenomena in Force Measurements Emerging under Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13062-13067.	1.5	2

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73	Engineering Processes for Jewellery Design. International Journal of Designed Objects, 2014, 7, 1-8.	0.4	2
74	The Role of the Nano/Microstructure in the Case of the Photodegradation of Two Model VOC Pollutants Using Commercial TiO ₂ . Energy and Environment Focus, 2015, 4, 226-231.	0.3	1
75	Colored Titanium Oxides: From Jewelry to Biomedical Applications. , 2018, , 99-107.		1
76	Round-the-clock photocatalytic memory systems: Phenomenon and applications. , 2021, , 359-384.		1
77	Photoactive TiO ₂ Films Produced with Different Techniques in Anodic Spark Deposition Regime. Advanced Science Letters, 2017, 23, 5962-5965.	0.2	1
78	Suspended Multifunctional Nanocellulose as Additive for Mortars. Nanomaterials, 2022, 12, 1093.	1.9	1
79	Corrosion in Italy. Corrosion Reviews, 2011, 29, .	1.0	0
80	Memristive Anodic Oxides: Production, Properties and Applications in Neuromorphic Computing. , 2018, , .		0
81	Evaluation of Preventative Methods against Rebar Corrosion in Concrete. Key Engineering Materials, 0, 919, 132-142.	0.4	0