

# 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	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
2	Suspended Multifunctional Nanocellulose as Additive for Mortars. <i>Nanomaterials</i> , 2022, 12, 1093.	1.9	1
3	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	1.3	15
4	A novel nanotubular TiO <sub>2</sub> -based Plug-Flow reactor for gas phase photocatalytic degradation of toluene. <i>Chemical Engineering Journal</i> , 2022, 437, 135323.	6.6	13
5	Evaluation of Coatings to Improve the Durability and Water-Barrier Properties of Corrugated Cardboard. <i>Coatings</i> , 2022, 12, 10.	1.2	3
6	Durability of self-cleaning cement-based materials. <i>Construction and Building Materials</i> , 2021, 280, 122442.	3.2	23
7	Mechanistic insights into photogenerated electrons store-and-discharge in hydrogenated glucose template synthesized Pt: TiO <sub>2</sub> /WO <sub>3</sub> photocatalyst for the round-the-clock decomposition of methanol. <i>Materials Research Bulletin</i> , 2021, 137, 111203.	2.7	8
8	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
9	Round-the-clock photocatalytic memory systems: Phenomenon and applications. , 2021, , 359-384.		1
10	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
11	Immobilized Nano-TiO <sub>2</sub> Photocatalysts for the Degradation of Three Organic Dyes in Single and Multi-Dye Solutions. <i>Coatings</i> , 2020, 10, 919.	1.2	8
12	Fabrication of dual-phase TiO <sub>2</sub> /WO <sub>3</sub> with post-illumination photocatalytic memory. <i>New Journal of Chemistry</i> , 2020, 44, 20375-20386.	1.4	18
13	On the Role of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles and Reduced Graphene Oxide Nanosheets in Enhancing Self-Cleaning Properties of Composite TiO <sub>2</sub> for Cultural Heritage Protection. <i>Coatings</i> , 2020, 10, 933.	1.2	4
14	Heterostructured TiO <sub>2</sub> /SiO <sub>2</sub> / $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /rGO Coating with Highly Efficient Visible-Light-Induced Self-Cleaning Properties for Metallic Artifacts. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29671-29683.	4.0	34
15	Hierarchical Anodic TiO <sub>2</sub> Nanostructures Formed in Ethylene Glycol/H <sub>3</sub> PO <sub>4</sub> Electrolytes for Direct Photocatalysis. <i>ChemElectroChem</i> , 2020, 7, 2859-2863.	1.7	5
16	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
17	Magnetically Recoverable TiO <sub>2</sub> /SiO <sub>2</sub> / $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /rGO Composite with Significantly Enhanced UV-Visible Light Photocatalytic Activity. <i>Molecules</i> , 2020, 25, 2996.	1.7	13
18	Memristive Electronic Synapses Made by Anodic Oxidation. <i>Chemistry of Materials</i> , 2019, 31, 8394-8401.	3.2	26

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19	Photocatalytic performance of mortars with nanoparticles exposed to the urban environment. , 2019, , 527-555.		4
20	Absorption and photocatalytic degradation of VOCs by perfluorinated ionomeric coating with TiO <sub>2</sub> nanopowders for air purification. Chemical Engineering Journal, 2019, 361, 885-896.	6.6	57
21	Photocatalytic behaviour of anodised titanium using different cathodes. Surface Engineering, 2019, 35, 46-53.	1.1	3
22	Corrosion of titanium: Part 2: Effects of surface treatments. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 3-13.	0.7	15
23	Intrinsic AuPt-alloy particles decorated on TiO <sub>2</sub> nanotubes provide enhanced photocatalytic degradation. Electrochimica Acta, 2018, 292, 865-870.	2.6	24
24	Memristive Anodic Oxides: Production, Properties and Applications in Neuromorphic Computing. , 2018, , .		0
25	The Anodic Oxidation of Titanium and Its Alloys. , 2018, , 41-54.		6
26	Binders alternative to Portland cement and waste management for sustainable constructionâ€”part 1. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 186-202.	0.7	57
27	Colored Titanium Oxides: From Jewelry to Biomedical Applications. , 2018, , 99-107.		1
28	Photocatalytic Activity of Nanotubular TiO <sub>2</sub> Films Obtained by Anodic Oxidation: A Comparison in Gas and Liquid Phase. Materials, 2018, 11, 488.	1.3	12
29	Effect of water content on the corrosiveness of imidazoliumâ€”based ionic liquids. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1658-1668.	0.8	3
30	Self-cleaning building materials: The multifaceted effects of titanium dioxide. Construction and Building Materials, 2018, 182, 126-133.	3.2	29
31	Corrosion of Titanium: Part 1: Aggressive Environments and Main Forms of Degradation. Journal of Applied Biomaterials and Functional Materials, 2017, 15, e291-e302.	0.7	62
32	Photoactive TiO <sub>2</sub> Films Produced with Different Techniques in Anodic Spark Deposition Regime. Advanced Science Letters, 2017, 23, 5962-5965.	0.2	1
33	Anodic Oxidation as a Means to Produce Memristive Films. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e290-e295.	0.7	9
34	A high-throughput technique for determining grain boundary character non-destructively in microstructures with through-thickness grains. Npj Computational Materials, 2016, 2, .	3.5	16
35	TiO <sub>2</sub> alterations with natural aging: Unveiling the role of nitric acid on NIR reflectance. Solar Energy Materials and Solar Cells, 2016, 157, 791-797.	3.0	12
36	Immobilized TiO <sub>2</sub> nanoparticles produced by flame spray for photocatalytic water remediation. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	11

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37	TiO <sub>2</sub> Nanotubes Arrays Loaded with Ligand-Free Au Nanoparticles: Enhancement in Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 31051-31058.	4.0	20
38	Effect of etching on the composition and structure of anodic spark deposition films on titanium. Materials and Design, 2016, 108, 77-85.	3.3	22
39	Robust anodic colouring of titanium: Effect of electrolyte and colour durability. Materials and Design, 2016, 90, 1085-1091.	3.3	20
40	Nanotech-Based Cool Materials for Building Energy Efficiency. , 2016, , 245-278.		3
41	Compatibility of Imidazolium-Based Ionic Liquids for CO <sub>2</sub> Capture with Steel Alloys: a Corrosion Perspective. Electrochimica Acta, 2016, 192, 414-421.	2.6	19
42	Key Oxidation Parameters that Influence Photo-Induced Properties and Applications of Anodic Titanium Oxides. Journal of the Electrochemical Society, 2016, 163, H119-H127.	1.3	4
43	Multi-wall carbon nanostructured paper: characterization and potential applications definition. Materials Research Express, 2015, 2, 095601.	0.8	9
44	Underlying Mechanism of Time Dependent Surface Properties of Calcite (CaCO <sub>3</sub> ): A Baseline for Investigations of Reservoirs Wettability. Journal of Physical Chemistry C, 2015, 119, 29038-29043.	1.5	9
45	Application-wise nanostructuring of anodic films on titanium: a review. Journal of Experimental Nanoscience, 2015, 10, 1285-1308.	1.3	35
46	General Parametrization of Persisting Long-Range Nanoscale Phenomena in Force Measurements Emerging under Ambient Conditions. Journal of Physical Chemistry C, 2015, 119, 13062-13067.	1.5	2
47	The Role of the Nano/Microstructure in the Case of the Photodegradation of Two Model VOC Pollutants Using Commercial TiO <sub>2</sub> . Energy and Environment Focus, 2015, 4, 226-231.	0.3	1
48	Molecular modelling and electrochemical evaluation of organic inhibitors in concrete. Corrosion Science, 2015, 100, 231-241.	3.0	62
49	Long term self-cleaning and photocatalytic performance of anatase added mortars exposed to the urban environment. Construction and Building Materials, 2015, 96, 270-278.	3.2	56
50	On the Growth of Thin Anodic Oxides Showing Interference Colors on Valve Metals. Current Nanoscience, 2015, 11, 307-316.	0.7	12
51	Probing anodic oxidation kinetics and nanoscale heterogeneity within TiO <sub>2</sub> films by Conductive Atomic Force Microscopy and combined techniques. Electrochimica Acta, 2014, 129, 203-210.	2.6	16
52	Engineering Processes for Jewellery Design. International Journal of Designed Objects, 2014, 7, 1-8.	0.4	2
53	Photocatalytic and self-cleaning activity of colored mortars containing TiO <sub>2</sub> . Construction and Building Materials, 2013, 46, 167-174.	3.2	82
54	Production of Anodic TiO <sub>2</sub> Nanofilms and their Characterization. Physics Procedia, 2013, 40, 30-37.	1.2	24

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55	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
56	Mutual interactions between carbonation and titanium dioxide photoactivity in concrete. <i>Building and Environment</i> , 2013, 62, 174-181.	3.0	44
57	Nanoscale Investigation of Photoinduced Hydrophilicity Variations in Anatase and Rutile Nanopowders. <i>Langmuir</i> , 2013, 29, 14512-14518.	1.6	14
58	Multi-step anodizing on Ti6Al4V components to improve tribomechanical performances. <i>Surface and Coatings Technology</i> , 2013, 227, 19-27.	2.2	27
59	Decoupling the dual source of colour alteration of architectural titanium: Soiling or oxidation?. <i>Corrosion Science</i> , 2013, 72, 125-132.	3.0	11
60	Effect of amorphous fluorinated coatings on photocatalytic properties of anodized titanium surfaces. <i>Thin Solid Films</i> , 2013, 545, 210-216.	0.8	12
61	Photocatalytic and Antimicrobial Coatings by Electrodeposition of Silver/TiO <sub>2</sub> Nano-Composites. <i>ECS Transactions</i> , 2013, 45, 1-6.	0.3	6
62	UV-resistant amorphous fluorinated coating for anodized titanium surfaces. <i>Progress in Organic Coatings</i> , 2012, 74, 794-800.	1.9	21
63	Anodic coloring of titanium and its alloy for jewels production. <i>Color Research and Application</i> , 2012, 37, 384-390.	0.8	38
64	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
65	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
66	Anti-fingerprints fluorinated coating for anodized titanium avoiding color alteration. <i>Journal of Coatings Technology Research</i> , 2011, 8, 153-160.	1.2	19
67	Corrosion in Italy. <i>Corrosion Reviews</i> , 2011, 29, .	1.0	0
68	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
69	Representing localized corrosion processes through cellular automata. <i>Corrosion Reviews</i> , 2011, 29, .	1.0	5
70	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
71	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
72	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

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73	Effect of thermal oxidation on titanium oxides' characteristics. Journal of Experimental Nanoscience, 2009, 4, 365-372.	1.3	41
74	Mechanical characterization of an innovative dental implant system. Journal of Applied Biomaterials and Biomechanics, 2009, 7, 23-8.	0.4	13
75	Thickness of Anodic Titanium Oxides as a Function of Crystallographic Orientation of the Substrate. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2143-2147.	1.1	27
76	Interference colors of thin oxide layers on titanium. Color Research and Application, 2008, 33, 221-228.	0.8	131
77	Characterization of photocatalytic and superhydrophilic properties of mortars containing titanium dioxide. Cement and Concrete Research, 2008, 38, 1349-1353.	4.6	144
78	Effect of anodic oxidation parameters on the titanium oxides formation. Corrosion Science, 2007, 49, 939-948.	3.0	218
79	Photocatalytic behavior of different titanium dioxide layers. Thin Solid Films, 2007, 515, 6309-6313.	0.8	59
80	Evaluation of Additional Protection Methods to Control Reinforcement Corrosion. Key Engineering Materials, 0, 711, 37-44.	0.4	4
81	Evaluation of Preventative Methods against Rebar Corrosion in Concrete. Key Engineering Materials, 0, 919, 132-142.	0.4	0