## Superhydrophobic films for the protection of outdoor c

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**Citation Report** 

#	Article	IF	CITATIONS
1	Superhydrophobic Composite Films Based on THS and Nanoparticles. Journal of Bionic Engineering, 2010, 7, S59-S66.	2.7	30
2	Large-area fabrication of superhydrophobic surfaces for practical applications: an overview. Science and Technology of Advanced Materials, 2010, 11, 033002.	2.8	268
3	Siloxaneâ^`TiO2 Hybrid Nanocomposites. The Structure of the Hydrophobic Layer. Journal of Physical Chemistry C, 2010, 114, 8287-8293.	1.5	60
4	Surfactant-Synthesized PDMS/Silica Nanomaterials Improve Robustness and Stain Resistance of Carbonate Stone. Journal of Physical Chemistry C, 2011, 115, 14624-14634.	1.5	100
5	Study of silica nanoparticles – polysiloxane hydrophobic treatments for stone-based monument protection. Journal of Cultural Heritage, 2011, 12, 356-363.	1.5	145
6	Structural stability of a colloidal solution of Ca(OH)2 nanocrystals exposed to high relative humidity conditions. Applied Physics A: Materials Science and Processing, 2011, 104, 1249-1254.	1.1	50
7	The measurement of surface roughness to determine the suitability of different methods for stone cleaning. Journal of Geophysics and Engineering, 2012, 9, S108-S117.	0.7	28
8	Electrochemical machining of super-hydrophobic Al surfaces and effect of processing parameters on wettability. Applied Physics A: Materials Science and Processing, 2012, 108, 559-568.	1.1	34
9	Superhydrophobic RTV silicone rubber insulator coatings. Applied Surface Science, 2012, 258, 2972-2976.	3.1	108
10	Multiscale Rough Titania Films with Patterned Hydrophobic/Oleophobic Features. Journal of Physical Chemistry C, 2012, 116, 26405-26413.	1.5	43
11	Surface studies on superhydrophobic and oleophobic polydimethylsiloxane–silica nanocomposite coating system. Applied Surface Science, 2012, 261, 807-814.	3.1	72
12	PANNA Project – Plasma and Nano for New Age Soft Conservation. Development of a Full-Life Protocol for the Conservation of Cultural Heritage. Lecture Notes in Computer Science, 2012, , 793-800.	1.0	2
13	Superhydrophobic polymerâ€particle composite films produced using various particle sizes. Surface and Interface Analysis, 2012, 44, 870-875.	0.8	71
14	Fabrication of hierarchical structured superhydrophobic Copper surface by in-situ method with micro/nano scaled particles. Materials Letters, 2012, 66, 299-301.	1.3	16
15	Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. Applied Surface Science, 2013, 283, 453-459.	3.1	13
16	Fabrication of superhydrophobic coatings based on nanoparticles and fluoropolyurethane. Journal of Applied Polymer Science, 2013, 128, 4136-4140.	1.3	29
17	Fabrication of Water Repellent Coatings Using Waterborne Resins for the Protection of the Cultural Heritage. Macromolecular Symposia, 2013, 331-332, 158-165.	0.4	48
18	Superhydrophobic oleophobic PDMS-silica nanocomposite coating. Surface Innovations, 2013, 1, 40-51.	1.4	29

ARTICLE IF CITATIONS # Monitoring the polymerization process of Si-based superhydrophobic coatings using Raman 19 1.9 14 spectroscopy. Progress in Organic Coatings, 2013, 76, 488-494. An Efficient Environmentally-Friendly Materials for Concrete Building Protection. Applied Mechanics 0.2 and Materials, 2013, 368-370, 901-904. Synthesis and characterization of nanocrystalline TiO2 with application as photoactive coating on 22 2.7 37 stones. Environmental Science and Pollution Research, 2014, 21, 13264-13277. The Application of Nanomaterials in Restoring Historic Structures. Advanced Materials Research, 0.3 2014, 923, 52-55. From Hydrophobic to Superhydrophobic and Superhydrophilic Siloxanes by Thermal Treatment. 24 42 1.6 Langmuir, 2014, 30, 13235-13243. Influence of porosity on artificial deterioration of marble and limestone by heating. Applied Physics A: Materials Science and Processing, 2014, 115, 809-816. 1.1 Surface characterization of some porous natural stones modified with a waterborne fluorinated polysiloxane agent under physical weathering conditions. Journal of Coatings Technology Research, 2014, 11, 639-649. 26 1.2 18 Modification of the wettability of polymer surfaces using nanoparticles. Progress in Organic 1.9 Coatings, 2014, 77, 331-338. Water repellent ORMOSIL films for the protection of stone and other materials. Materials Letters, 28 1.3 50 2014, 131, 276-279. Compatibility of photocatalytic TiO2-based finishing for renders in architectural restoration: A preliminary study. Building and Environment, 2014, 80, 125-135. Cement-based renders with insulating properties. Construction and Building Materials, 2014, 65, 30 3.2 9 427-431. Nanotechnological Advances in Catalytic Thin Films for Green Large-Area Surfaces. Journal of 1.5 Nanomaterials, 2015, 2015, 1-20. TiO2 and SiO2 nanoparticles film for cultural heritage: Conservation and consolidation of ceramic 32 2.2 19 artifacts. Surface and Coatings Technology, 2015, 271, 174-180. Formation of superwetting surface with line-patterned nanostructure on sapphire induced by femtosecond laser. Applied Physics A: Materials Science and Processing, 2015, 119, 69-74. 1.1 Influence of the coating method on the formation of superhydrophobic silicone–urea surfaces 34 1.9 37 modified with fumed silica nanoparticles. Progress in Organic Coatings, 2015, 84, 143-152. Highly transparent poly(2-ethyl-2-oxazoline)-TiO<sub>2</sub> nanocomposite coatings for the consérvation of matte painted artworks. RSC Advances, 2015, 5, 84879-84888. On the role of hydrophobic Si-based protective coatings in limiting mortar deterioration. 36 2.7 11 Environmental Science and Pollution Research, 2015, 22, 17733-17743. Controlling surface energy of glass substrates to prepare superhydrophobic and transparent films 34 from silica nanoparticle suspensions. Journal of Colloid and Interface Science, 2015, 437, 24-27.

CITATION REPORT

	CITATION	KLPUKI	
#	Article	IF	CITATIONS
38	Smart hybrid coatings for natural stones conservation. Progress in Organic Coatings, 2015, 78, 511-516.	1.9	86
39	Performances and Coating Morphology of a Siloxane-Based Hydrophobic Product Applied in Different Concentrations on a Highly Porous Stone. Coatings, 2016, 6, 60.	1.2	21
40	Superhydrophobic, superoleophobic coatings for the protection of silk textiles. Progress in Organic Coatings, 2016, 97, 44-52.	1.9	77
41	Superhydrophobic and Water-Repellent Polymer-Nanoparticle Composite Films. , 2016, , 205-221.		2
42	Bridged siloxanes as novel potential hybrid consolidants for ancient Qin terracotta. Progress in Organic Coatings, 2016, 101, 416-422.	1.9	5
43	Tuning the wetting properties of siloxane-nanoparticle coatings to induce superhydrophobicity and superoleophobicity for stone protection. Materials and Design, 2016, 108, 736-744.	3.3	77
44	From Archaeological Sites to Nanoscale: The Quest of Tailored Analytical Strategy and Modelling. , 2016, , 205-230.		2
45	Hydrophobic and superhydrophobic coatings for limestone and marble conservation. , 2016, , 421-452.		16
46	Efficient self-cleaning treatments for built heritage based on highly photo-active and well-dispersible TiO2 nanocrystals. Microchemical Journal, 2016, 126, 54-62.	2.3	55
47	Influence of production method, silicone type and thickness on silicon rubber superhydrophobic coatings. Progress in Organic Coatings, 2016, 90, 291-295.	1.9	33
48	Fabrication of superhydrophobic unplasticized poly(vinyl chloride)/nanosilica sheets using Taguchi design methodology. Polymer International, 2017, 66, 672-678.	1.6	1
49	Toxicogenomics analysis of mouse lung responses following exposure to titanium dioxide nanomaterials reveal their disease potential at high doses. Mutagenesis, 2017, 32, 59-76.	1.0	30
51	The Role of Application Techniques for High Performance Traditional Renders. Procedia Environmental Sciences, 2017, 38, 242-247.	1.3	5
52	Effects of protective treatments on particle deposition and colour variation in stone surfaces exposed to an urban environment. Progress in Organic Coatings, 2017, 112, 75-85.	1.9	14
53	Synthesis and characterization of thin-transparent nanostructured films for surface protection. Superlattices and Microstructures, 2017, 101, 209-218.	1.4	5
54	Advanced mortar coatings for cultural heritage protection. Durability towards prolonged UV and outdoor exposure. Environmental Science and Pollution Research, 2017, 24, 12608-12617.	2.7	37
55	Protecting of Marble Stone Facades of Historic Buildings Using Multifunctional TiO2 Nanocoatings. Sustainability, 2017, 9, 2002.	1.6	24
56	TiO2–SiO2–PDMS nanocomposite coating with self-cleaning effect for stone material: Finding the optimal amount of TiO2. Construction and Building Materials, 2018, 166, 464-471.	3.2	54

CITATION REPORT

#	Article	IF	CITATIONS
57	Improvements in marble protection by means of innovative photocatalytic nanocomposites. Progress in Organic Coatings, 2018, 121, 13-22.	1.9	16
58	Superhydrophobic Coatings for the Protection of Natural Stone. , 2018, , 1-25.		6
60	Photocatalytically active coatings for cement and air lime mortars: Enhancement of the activity by incorporation of superplasticizers. Construction and Building Materials, 2018, 162, 628-648.	3.2	25
61	Avaliação da eficácia de hidrofugantes e antigraffiti no Arenito Itararé. Geologia USP - Serie Cientifica, 2018, 18, 43-55.	0.1	2
62	Characterization and Properties of Silicate and Nanocomposite Coatings for the Protection of Dolomite Marble Against Weathering. , 2018, , 287-294.		1
63	Novel Attribute of Organic–Inorganic Hybrid Coatings for Protection and Preservation of Materials (Stone and Wood) Belonging to Cultural Heritage. Coatings, 2018, 8, 319.	1.2	44
64	Poly(hydroxyalkanoate)s-Based Hydrophobic Coatings for the Protection of Stone in Cultural Heritage. Materials, 2018, 11, 165.	1.3	44
65	Superhydrophobic, Superoleophobic and Antimicrobial Coatings for the Protection of Silk Textiles. Coatings, 2018, 8, 101.	1.2	40
66	New Consolidant-Hydrophobic Treatment by Combining SiO2 Composite and Fluorinated Alkoxysilane: Application on Decayed Biocalcareous Stone from an 18th Century Cathedral. Coatings, 2018, 8, 170.	1.2	21
67	Waterborne Superhydrophobic and Superoleophobic Coatings for the Protection of Marble and Sandstone. Materials, 2018, 11, 585.	1.3	60
68	Transparent Surfaces Inspired by Nature. Advanced Optical Materials, 2018, 6, 1800091.	3.6	34
69	Efficiency assessment of hybrid coatings for natural building stones: Advanced and multi-scale laboratory investigation. Construction and Building Materials, 2018, 180, 412-424.	3.2	12
70	Molecular Dynamics (MD) Simulation of Zwitterion-Functionalized PMMA with Hydrophilic and Antifouling Surface Characteristics. Macromolecular Research, 2019, 27, 1200-1209.	1.0	6
71	Bioinspired Alkoxysilane Conservation Treatments for Building Materials Based on Amorphous Calcium Carbonate and Oxalate Nanoparticles. ACS Applied Nano Materials, 2019, 2, 4954-4967.	2.4	20
72	Towards Novel Fluorinated Methacrylic Coatings for Cultural Heritage: A Combined Polymers and Surfaces Chemistry Study. Polymers, 2019, 11, 1190.	2.0	16
73	Nanostructured Coatings for Stone Protection: An Overview. Frontiers in Materials, 2019, 6, .	1.2	39
74	The hydrophobicity modulation of glass and marble materials by different Si-based coatings. Progress in Organic Coatings, 2019, 136, 105260.	1.9	14
75	Scanning Microscopy Techniques as an Assessment Tool of Materials and Interventions for the Protection of Built Cultural Heritage. Scanning, 2019, 2019, 1-20.	0.7	11

ARTICLE IF CITATIONS # Photoactive and hydrophobic nano-ZnO/poly(alkyl siloxane) coating for the protection of sandstone. 3.2 20 76 Construction and Building Materials, 2019, 199, 549-559. Recent advance in alkoxysilane-based consolidants for stone. Progress in Organic Coatings, 2019, 127, 45-54. Field study in an urban environment of simultaneous self-cleaning and hydrophobic nanosized 78 TiO2-based coatings on stone for the protection of building surface. Science of the Total 3.9 44 Environment, 2019, 650, 2919-2930. Comparative study of protective coatings for the conservation of Urban Art. Journal of Cultural Heritage, 2020, 41, 232-237. Superhydrophobic Paraloid B72. Progress in Organic Coatings, 2020, 139, 105224. 80 1.9 28 Present and Future Perspectives for Biocides and Antifouling Products for Stone-Built Cultural Heritage: Ionic Liquids as a Challenging Alternative. Applied Sciences (Switzerland), 2020, 10, 6568. 1.3 Robust Hydrophobic Coatings Using Polymer Blends for the Surface Protection of Marble. Colloids 82 2.3 0 and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124796. Recent Advances in Protective Coatings for Cultural Heritageâ€"An Overview. Coatings, 2020, 10, 217. 1.2 68 Assessment of protection treatments for carbonatic stone using nanocomposite coatings. Progress 84 1.9 7 in Organic Coatings, 2020, 141, 105515. 1H-NMR-relaxation and colorimetry for evaluating nanopolymeric dispersions as stone protective 1.5 coatings. Journal of Cultural Heritage, 2020, 44, 204-210. Superhydrophobic Coatings Based on Siloxane Resin and Calcium Hydroxide Nanoparticles for Marble 86 1.2 30 Protection. Coatings, 2020, 10, 334. Current Status and Future Prospects of Applying Bioinspired Superhydrophobic Materials for 87 1.2 Conservation of Stone Artworks. Coatings, 2020, 10, 353. Effectiveness of some protective and self-cleaning treatments: a challenge for the conservation of 88 1.9 3 temple G stone in Selinunte. Progress in Organic Coatings, 2021, 151, 106020. TEOS-Based Superhydrophobic Coating for the Protection of Stone-Built Cultural Heritage. Coatings, 89 1.2 2021, 11, 135. The Adverse Effects of TiO2 Photocatalycity on Paraloid B72 Hybrid Stone Relics Protective Coating 90 2.0 7 Aging Behaviors under UV Irradiation. Polymers, 2021, 13, 262. Superhydrophobic and Self-Cleaning Coatings for the Protection of the Cultural Heritage: A Case Study Úsing TiO2 Nanoparticles. , 2021, , 209-232. Enhanced Historical Limestone Protection by New Organic/Inorganic Additive-Modified Resins. 92 1.2 7 Coatings, 2021, 11, 73. Empirical Study on Weather Resistance of White Artificial Stones in Subtropical Island Climate. Sustainability, 2021, 13, 1509.

CITATION REPORT

CITATION REPORT

#	Article	IF	CITATIONS
94	How Green Possibilities Can Help in a Future Sustainable Conservation of Cultural Heritage in Europe. Sustainability, 2021, 13, 3609.	1.6	15
95	Investigation of water dropletâ€initiated discharges on laser textured silicone nanoâ€micro composites using UHF and fluorescent fibre techniques. IET Nanodielectrics, 0, , .	2.0	0
96	Improvement of the depolluting and self-cleaning abilities of air lime mortars with dispersing admixtures. Journal of Cleaner Production, 2021, 292, 126069.	4.6	12
97	Comparison of Latest and Innovative Silica-Based Consolidants for Volcanic Stones. Materials, 2021, 14, 2513.	1.3	4
98	One-step fabrication of robust and durable superamphiphobic, self-cleaning surface for outdoor and in situ application on building substrates. Journal of Colloid and Interface Science, 2021, 591, 239-252.	5.0	37
99	An effective polymer nanocomposite based on tetraethoxysilane (TEOS) and SiO2-Al2O3 nanoparticles for super protection of damaged ancient Egyptian wall paintings. Pigment and Resin Technology, 2022, 51, 344-353.	0.5	3
100	Calcitic-based stones protection by a low-fluorine modified methacrylic coating. Environmental Science and Pollution Research, 2021, , 1.	2.7	2
101	Fluorosilane Water-Repellent Coating for the Protection of Marble, Wood and Other Materials. Heritage, 2021, 4, 2668-2675.	0.9	5
102	Photocatalytic TiO2-based coatings for environmental applications. Catalysis Today, 2021, 380, 62-83.	2.2	46
103	Mortars and plasters—how to manage mortars and plasters conservation. Archaeological and Anthropological Sciences, 2021, 13, 1.	0.7	31
104	Challenges and Opportunities in Fabrication of Transparent Superhydrophobic Surfaces. Current Nanoscience, 2016, 12, 429-447.	0.7	8
105	Surface Active Ionic Liquids Based Coatings as Subaerial Anti-Biofilms for Stone Built Cultural Heritage. Coatings, 2021, 11, 26.	1.2	17
106	Deposition of Transparent, Hydrophobic TiO2 Film for the Protection of Outdoor and Marine Cultural Heritage Assets. Archaeological Discovery, 2013, 01, 32-36.	0.3	4
107	Multifunctional Composite Coatings Based on Photoactive Metal-Oxide Nanopowders (MgO/TiO2) in Hydrophobic Polymer Matrix for Stone Heritage Conservation. Nanomaterials, 2021, 11, 2586.	1.9	10
108	Multifunctional and Durable Coatings for Stone Protection Based on Gd-Doped Nanocomposites. Sustainability, 2021, 13, 11033.	1.6	12
109	MECHANISM OF EFFICIENCY OF SELECTED NANOSYSTEMS INTENDED FOR CONSOLIDATION OF POROUS MATERIALS. Civil Engineering Journal, 2019, 28, 599-605.	0.1	0
110	The Protection of Building Materials of Historical Monuments with Nanoparticle Suspensions. Heritage, 2021, 4, 3970-3986.	0.9	2
111	Waterborne superhydrophobic coatings for the conservation of the cultural heritage. , 2020, , 229-247.		0

	CITATION	CITATION REPORT		
#	Article	IF	CITATIONS	
112	Nanoparticles formed during mineral-fluid interactions. Chemical Geology, 2021, 586, 120614.	1.4	13	
113	Studying the dosage-dependent influence of hydrophobic alkoxysilane/siloxane admixtures on the performance of repair micromortars. Journal of Building Engineering, 2022, 48, 103905.	1.6	2	
114	Nanoparticles in the Field of Built Heritage Restoration: Challenges and Limits. , 2022, , 1033-1050.		0	
116	TEOS Nanocomposites for the Consolidation of Carbonate Stone: The Effect of Nano-HAp and Nano-SiO2 Modifiers. Materials, 2022, 15, 981.	1.3	7	
117	Superhydrophobic and superamphiphobic materials for the conservation of natural stone: An overview. Construction and Building Materials, 2022, 320, 126175.	3.2	32	
118	Long-term effect of weather in Dfb climate subtype on properties of hydrophobic coatings on sandstone. Journal of Building Engineering, 2022, 52, 104383.	1.6	1	
119	Physical and mechanical characteristics of TEOS-modified nanocomposites. Journal of Polymer Research, 2022, 29, 1.	1.2	0	
120	Crystallization via Nonclassical Pathways: Nanoscale Imaging of Mineral Surfaces. ACS Symposium Series, 0, , 1-35.	0.5	3	
121	A Short Overview of Recent Developments in the Application of Polymeric Materials for the Conservation of Stone Cultural Heritage Elements. Materials, 2022, 15, 6294.	1.3	11	
122	A Durable Nano-SiO2-TiO2/Dodecyltrimethoxysilane Superhydrophobic Coating for Stone Protection. Coatings, 2022, 12, 1397.	1.2	9	
123	Silica nanoparticles enhanced polysiloxane-modified nickel-based coatings on Mg alloy for robust superhydrophobicity and high corrosion resistance. Surface and Coatings Technology, 2022, 450, 128995.	2.2	14	
124	Effectiveness and durability assessment, under extreme environmental conditions, of a superhydrophobic coating applied onto sandstone from Carteia roman archaeological site. Chemical Engineering Science, 2023, 265, 118236.	1.9	1	
125	Transparent and superhydrophobic coating via one-step spraying for cultural relic protection against water and moisture. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 662, 130949.	2.3	8	
126	Tuning the Wettability of a Commercial Silane Product to Induce Superamphiphobicity for Stone Protection. Coatings, 2023, 13, 700.	1.2	3	