List of Publications by Year in descending order

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WAN LEDMAN

#	Article	IF	CITATIONS
1	Preservation state assessment and post-mortem interval estimation of human skeletal remains using ATR-FTIR spectra. Australian Journal of Forensic Sciences, 2022, 54, 511-532.	0.7	5
2	Effect of bridged DOPO/polyurethane nanocomposites on solar absorber coatings with reduced flammability. Solar Energy, 2022, 231, 104-114.	2.9	7
3	Review of the spectrally selective (CSP) absorber coatings, suitable for use in SHIP. Solar Energy Materials and Solar Cells, 2022, 238, 111625.	3.0	16
4	In situ Raman and UV–visible study of hybrid electrochromic devices with bis end-capped designed trialkoxysilyl-functionalized ionic liquid based electrolytes. Solar Energy Materials and Solar Cells, 2021, 220, 110863.	3.0	2
5	Electrochemical Performance and Mechanism of Calcium Metalâ€Organic Battery. Batteries and Supercaps, 2021, 4, 214-220.	2.4	44
6	Role of CO2 During Oxidative Dehydrogenation of Propane Over Bulk and Activated-Carbon Supported Cerium and Vanadium Based Catalysts. Catalysis Letters, 2021, 151, 2816-2832.	1.4	14
7	Influence of the Prepolymer Type and Synthesis Parameters on Self-Healing Anticorrosion Properties of Composite Coatings Containing Isophorone Diisocyanate-Loaded Polyurethane Microcapsules. Polymers, 2021, 13, 840.	2.0	6
8	New Insights into Antibacterial and Antifungal Properties, Cytotoxicity and Aquatic Ecotoxicity of Flame Retardant PA6/DOPO-Derivative Nanocomposite Textile Fibers. Polymers, 2021, 13, 905.	2.0	5
9	Understanding the Oxygen Reduction Reaction Activity of Quasi-1D and 2D N-Doped Heat-Treated Graphene Oxide Catalysts with Inherent Metal Impurities. ACS Applied Energy Materials, 2021, 4, 3593-3603.	2.5	21
10	Bone fragment or bone powder? ATR-FTIR spectroscopy–based comparison of chemical composition and DNA preservation of bones after 10Âyears in a freezer. International Journal of Legal Medicine, 2021, 135, 1695-1707.	1.2	2
11	Polyhedral oligomeric silsesquioxanes as protective monolayer coatings against the high-temperature corrosion of concentrating solar power absorber surfaces. Solar Energy Materials and Solar Cells, 2021, 223, 110984.	3.0	2
12	Graphitic Carbon Nitride as a New Sustainable Photocatalyst for Textile Functionalization. Polymers, 2021, 13, 2568.	2.0	9
13	Novel Green In Situ Synthesis of ZnO Nanoparticles on Cotton Using Pomegranate Peel Extract. Materials, 2021, 14, 4472.	1.3	20
14	Charge balancing and optical contrast optimization in Fe-MEPE/Ni1-xO electrochromic devices containing a Li reference electrode. Solar Energy Materials and Solar Cells, 2021, 227, 111080.	3.0	3
15	Multifunctional antibacterial and ultraviolet protective cotton cellulose developed by in situ biosynthesis of silver nanoparticles into a polysiloxane matrix mediated by sumac leaf extract. Applied Surface Science, 2021, 563, 150361.	3.1	25
16	New sustainable flame retardant DOPO-NH-functionalized polyamide 6 and filament yarn. Chemical Engineering Journal, 2021, 426, 130760.	6.6	30
17	Emerging triâ€sâ€triazineâ€based graphitic carbon nitride: A potential signalâ€transducing nanostructured material for sensor applications. Nano Select, 2021, 2, 712-743.	1.9	27
18	Exploring the effect of morphology and surface properties of nanoshaped Pd/CeO2 catalysts on CO2 hydrogenation to methanol. Applied Catalysis A: General, 2021, 627, 118394.	2.2	22

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19	Electrochemical Mechanism of Al Metal–Organic Battery Based on Phenanthrenequinone. Energy Material Advances, 2021, 2021, .	4.7	21
20	Toward the Continuous Production of Multigram Quantities of Highly Uniform Supported Metallic Nanoparticles and Their Application for Synthesis of Superior Intermetallic Pt-Alloy ORR Electrocatalysts. ACS Applied Energy Materials, 2021, 4, 13819-13829.	2,5	21
21	Bio-Based Epoxy Adhesives with Lignin-Based Aromatic Monophenols Replacing Bisphenol A. Polymers, 2021, 13, 3879.	2.0	7
22	Separating forensic, WWII, and archaeological human skeletal remains using ATR-FTIR spectra. International Journal of Legal Medicine, 2020, 134, 811-821.	1.2	8
23	ATR-FTIR spectroscopy combined with data manipulation as a pre-screening method to assess DNA preservation in skeletal remains. Forensic Science International: Genetics, 2020, 44, 102196.	1.6	18
24	Characterization of Polyamide 6/Multilayer Graphene Nanoplatelet Composite Textile Filaments Obtained Via In Situ Polymerization and Melt Spinning. Polymers, 2020, 12, 1787.	2.0	9
25	Spectroelectrochemistry in the investigation of sol–gel electrochromic V2O5 films. Journal of Sol-Gel Science and Technology, 2020, 95, 587-598.	1.1	6
26	Tailored Crosslinking Process and Protective Efficiency of Epoxy Coatings Containing Glycidyl-POSS. Polymers, 2020, 12, 591.	2.0	8
27	Effect of Different Flame-Retardant Bridged DOPO Derivatives on Properties of in Situ Produced Fiber-Forming Polyamide 6. Polymers, 2020, 12, 657.	2.0	30
28	Forty shades of black: A benchmark of high temperature sprayable black coatings applied on Haynes 230. AIP Conference Proceedings, 2020, , .	0.3	5
29	A Unique Interactive Nanostructure Knitting based Passive Sampler Adsorbent for Monitoring of Hg2+ in Water. Sensors, 2019, 19, 3432.	2.1	9
30	Metallopolymers and non-stoichiometric nickel oxide: Towards neutral tint large-area electrochromic devices. Solar Energy Materials and Solar Cells, 2019, 200, 110002.	3.0	10
31	Smart Stimuli-Responsive Polylactic Acid-Hydrogel Fibers Produced via Electrospinning. Fibers and Polymers, 2019, 20, 1857-1868.	1.1	11
32	High-temperature "ion baseball―for enhancing concentrated solar power efficiency. Solar Energy Materials and Solar Cells, 2019, 200, 109974.	3.0	5
33	Effect of silsesquioxane addition on the protective performance of fluoropolymer coatings for bronze surfaces. Materials and Design, 2019, 178, 107860.	3.3	19
34	In situ prepared polyamide 6/DOPO-derivative nanocomposite for melt-spinning of flame retardant textile filaments. Polymer Degradation and Stability, 2019, 166, 50-59.	2.7	39
35	Influence of an MgTiTaON Inserted Layer on Magnetic Properties and Microstructure of FePtAgC Films. Coatings, 2019, 9, 238.	1.2	2
36	High-solar-absorptance CSP coating characterization and reliability testing with isothermal and cyclic loads for service-life prediction. Energy and Environmental Science, 2019, 12, 1679-1694.	15.6	33

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37	Proactive Release of Antimicrobial Essential Oil from a "Smart―Cotton Fabric. Coatings, 2019, 9, 242.	1.2	5
38	Low-temperature V-oxide film for a flexible electrochromic device: Comparison of its electrochromic, IR and Raman properties to those of a crystalline V2O5 film. Solar Energy Materials and Solar Cells, 2019, 196, 185-199.	3.0	24
39	Amphiphilic POSS-based ionic liquid electrolyte additives as a boost for dye-sensitized solar cell performance. Solar Energy, 2019, 183, 619-631.	2.9	21
40	Round Robin Test for the comparison of spectral emittance measurement apparatuses. Solar Energy Materials and Solar Cells, 2019, 191, 476-485.	3.0	15
41	Influence of silsesquioxane addition on polyurethane-based protective coatings for bronze surfaces. Applied Surface Science, 2019, 467-468, 912-925.	3.1	30
42	Polyamide 6 composite fibers with incorporated mixtures of melamine cyanurate, carbon nanotubes, and carbon black. Journal of Applied Polymer Science, 2019, 136, 47007.	1.3	12
43	Influence of non-thermal plasma treatement on the adsorption of a stimuli-responsive nanogel onto polyethylene terephthalate fabric. Progress in Organic Coatings, 2018, 120, 198-207.	1.9	9
44	The effect of sol–gel boehmite coatings on the corrosion and decarburization of C45 steel. Journal of Sol-Gel Science and Technology, 2018, 86, 568-579.	1.1	8
45	POSS-modified black pigment for CSP deployment. AIP Conference Proceedings, 2018, , .	0.3	0
46	Antimicrobial activity of essential oils and their controlled release from the smart PLA fabric. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012011.	0.3	5
47	Merging of oxide species with black spinel structure by CSP operating temperature. AIP Conference Proceedings, 2018, , .	0.3	2
48	Development of solvent- and water-borne fluoropolymer protective coatings for patina-free bronze discs. Progress in Organic Coatings, 2018, 125, 266-278.	1.9	13
49	Comparison of responsive behaviour of smart PLA fabrics applied with temperature and pH responsive microgel and nanogel. Progress in Organic Coatings, 2018, 124, 213-223.	1.9	6
50	Influence of N-, P- and Si-based Flame Retardant Mixtures on Flammability, Thermal Behavior and Mechanical Properties of PA6 Composite Fibers. Fibers and Polymers, 2018, 19, 1194-1206.	1.1	11
51	Influence of the structure of a bio-barrier forming agent on the stimuli-response and antimicrobial activity of a "smart―non-cytotoxic cotton fabric. Cellulose, 2018, 25, 6231-6245.	2.4	5
52	Graphene nanoplatelets as an anticorrosion additive for solar absorber coatings. Solar Energy Materials and Solar Cells, 2018, 176, 19-29.	3.0	68
53	Recent Advances in Production of Flame Retardant Polyamide 6 Filament Yarns. Tekstilec, 2018, 61, 136-148.	0.3	9
54	Structural optimisation of a multifunctional water- and oil-repellent, antibacterial, and flame-retardant sol–gel coating on cellulose fibres. Cellulose, 2017, 24, 1511-1528.	2.4	22

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55	Combining polyNiPAAm/chitosan microgel and bio-barrier polysiloxane matrix to create smart cotton fabric with responsive moisture management and antibacterial properties: influence of the application process. Journal of Sol-Gel Science and Technology, 2017, 83, 19-34.	1.1	12
56	Modified bis-(3-(3-triethoxysilyl)propyl)thioureido)propyl terminated poly(dimethylsiloxane)/POSS protective coatings on AA 2024. Progress in Organic Coatings, 2017, 103, 1-14.	1.9	10
57	Embedment of silver into temperature- and pH-responsive microgel for the development of smart textiles with simultaneous moisture management and controlled antimicrobial activities. Carbohydrate Polymers, 2017, 159, 161-170.	5.1	31
58	Tailoring of temperature- and pH-responsive cotton fabric with antimicrobial activity: Effect of the concentration of a bio-barrier-forming agent. Carbohydrate Polymers, 2017, 174, 677-687.	5.1	6
59	Mechanisms of hydrophobization of polymeric composites etched in CF ₄ plasma. Surface and Interface Analysis, 2017, 49, 334-339.	0.8	7
60	Modification of cotton fabric with temperature/pH responsive hydrogel: influence of particles size. IOP Conference Series: Materials Science and Engineering, 2017, 254, 072024.	0.3	1
61	Influence of crosslinker structure on performance of functionalised organic-inorganic hybrid sol-gel coating. IOP Conference Series: Materials Science and Engineering, 2017, 254, 122013.	0.3	1
62	Organofunctional Trialkoxysilane Sol-Gel Precursors for Chemical Modification of Textile Fibres. Tekstilec, 2017, 60, 198-213.	0.3	7
63	Influence of oxygen plasma pre-treatment on the water repellency of cotton fibers coated with perfluoroalkyl-functionalized polysilsesquioxane. Fibers and Polymers, 2016, 17, 695-704.	1.1	17
64	Fabrication of the hierarchically roughened bumpy-surface topography for the long-lasting highly oleophobic "lotus effect―on cotton fibres. Cellulose, 2016, 23, 3301-3318.	2.4	14
65	Synergistic inhibitory action of P- and Si-containing precursors in sol–gel coatings on the thermal degradation of polyamide 6. Polymer Degradation and Stability, 2016, 128, 245-252.	2.7	39
66	Cycling stability and degradation mechanism of LiMnPO4 based electrodes. Journal of Power Sources, 2016, 303, 97-108.	4.0	44
67	Morphological, optical and electrical characterization of titania-nanotubes-based dye-sensitized solar cells. Solar Energy, 2016, 127, 232-238.	2.9	7
68	Application of Stimuli Responsive Microgel for Creation of Smart Cotton Fabric with Antibacterial Properties. Tekstilec, 2016, 59, 142-148.	0.3	2
69	Functionalization of cellulose fibres with DOPO-polysilsesquioxane flame retardant nanocoating. Cellulose, 2015, 22, 1893-1910.	2.4	112
70	Cotton fiber hot spot in situ growth of Stöber particles. Cellulose, 2015, 22, 3597-3607.	2.4	10
71	Comparison of electrochromic properties of Ni1â^'xO in lithium and lithium-free aprotic electrolytes: From Ni1â^'xO pigment coatings to flexible electrochromic devices. Solar Energy Materials and Solar Cells, 2014, 120, 116-130.	3.0	54
72	Multifunctional superhydrophobic/oleophobic and flame-retardant cellulose fibres with improved ice-releasing properties and passive antibacterial activity prepared via the sol–gel method. Journal of Sol-Gel Science and Technology, 2014, 70, 385-399.	1.1	33

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73	Novel multifunctional water- and oil-repellent, antibacterial, and flame-retardant cellulose fibres created by the sol–gel process. Cellulose, 2014, 21, 2611-2623.	2.4	43
74	Tailoring of multifunctional cellulose fibres with "lotus effect―and flame retardant properties. Cellulose, 2014, 21, 595-605.	2.4	14
75	Redoxâ€Active Functionalized Graphene Nanoribbons as Electrode Material for Liâ€lon Batteries. ChemElectroChem, 2014, 1, 2131-2137.	1.7	14
76	The influence of nano-ZnO application methods on UV protective properties of cotton. Acta Chimica Slovenica, 2014, 61, 587-94.	0.2	6
77	Preparation of electrochromic Ni1â^'xO and TiO2 coatings from pigment dispersions and their application in electrochromic foil based devices. Progress in Organic Coatings, 2013, 76, 1752-1755.	1.9	10
78	Study of flame-retardant finishing of cellulose fibres: Organic–inorganic hybrid versus conventional organophosphonate. Polymer Degradation and Stability, 2013, 98, 2602-2608.	2.7	53
79	Inherent defects in sol-precipitation/hydrothermally derived SrTiO 3 nanopowders. Ceramics International, 2013, 39, 6727-6734.	2.3	17
80	The surface modification of cellulose fibres to create super-hydrophobic, oleophobic and self-cleaning properties. Cellulose, 2013, 20, 277-289.	2.4	91
81	Mechanical properties of high density packed silica/poly(vinyl chloride) composites. Polymer Engineering and Science, 2013, 53, 1448-1453.	1.5	23
82	Electrochromic Ni1â^'xO pigment coatings and plastic film-based Ni1â^'xO/TiO2 device with transmissive light modulation. Solar Energy Materials and Solar Cells, 2012, 107, 175-187.	3.0	30
83	Effect of silica/PVC composite coatings on steel-substrate corrosion protection. Progress in Organic Coatings, 2012, 75, 392-397.	1.9	15
84	Multifunctional water and oil repellent and antimicrobial properties of finished cotton: influence of sol–gel finishing procedure. Journal of Sol-Gel Science and Technology, 2012, 61, 340-354.	1.1	56
85	Symmetrical thiol functionalized polyhedral oligomeric silsesquioxanes as building blocks for LB films. Soft Matter, 2011, 7, 8862.	1.2	22
86	POSS based ionic liquid as an electrolyte for hybrid electrochromic devices. Solar Energy Materials and Solar Cells, 2011, 95, 3472-3481.	3.0	49
87	Influence of amino functionalised POSS additive on the corrosion properties of (3-glycidoxypropyl)trimethoxysilane coatings on AA 2024 alloy. Progress in Organic Coatings, 2011, 72, 334-342.	1.9	16
88	Polyhedral oligomeric silsesquioxane trisilanols as pigment surface modifiers for fluoropolymer based Thickness Sensitive Spectrally Selective (TSSS) paint coatings. Solar Energy Materials and Solar Cells, 2011, 95, 423-431.	3.0	33
89	Surface with antimicrobial activity obtained through silane coating with covalently bound polymyxin B. Journal of Materials Science: Materials in Medicine, 2010, 21, 2775-2782.	1.7	34
90	A structural and corrosion study of triethoxysilyl and perfluorooctyl functionalized polyhedral silsesquioxane nanocomposite films on AA 2024 alloy. Thin Solid Films, 2010, 518, 2710-2721.	0.8	33

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91	The effect of polyhedral oligomeric silsesquioxane dispersant and low surface energy additives on spectrally selective paint coatings with self-cleaning properties. Solar Energy Materials and Solar Cells, 2010, 94, 232-245.	3.0	75
92	Corrosion protection of Sunselect, a spectrally selective solar absorber coating, by (3-mercaptopropyl)trimethoxysilane. Solar Energy Materials and Solar Cells, 2009, 93, 1733-1742.	3.0	36
93	Structural Properties and Antibacterial Effects of Hydrophobic and Oleophobic Solâ^'Gel Coatings for Cotton Fabrics. Langmuir, 2009, 25, 5869-5880.	1.6	180
94	lonic conductivity, infrared and Raman spectroscopic studies of 1-methyl-3-propylimidazolium iodide ionic liquid with added iodine. Electrochimica Acta, 2008, 53, 2281-2288.	2.6	102
95	Sol–gel coating of cellulose fibres with antimicrobial and repellent properties. Journal of Sol-Gel Science and Technology, 2008, 47, 44-57.	1.1	151
96	Imidazolium-based ionic liquid derivatives for application in electrochromic devices. Solar Energy Materials and Solar Cells, 2008, 92, 126-135.	3.0	49
97	Preparation of a TiMEMO nanocomposite by the sol–gel method and its application in coloured thickness insensitive spectrally selective (TISS) coatings. Solar Energy Materials and Solar Cells, 2008, 92, 1149-1161.	3.0	20
98	A Structural and Corrosion Study of Triethoxysilyl Functionalized POSS Coatings on AA 2024 Alloy. Langmuir, 2008, 24, 5029-5037.	1.6	58
99	Dye-Sensitized Solar Cells Made by Using a Polysilsesquioxane Polymeric Ionic Fluid as Redox Electrolyte. Journal of Physical Chemistry C, 2007, 111, 6528-6532.	1.5	31
100	Electrochemical and in-situ Raman spectroelectrochemical study of 1-methyl-3-propylimidazolium iodide ionic liquid with added iodine. Electrochemistry Communications, 2007, 9, 2062-2066.	2.3	21
101	Dealing with minor differences in bone matrix: can spectra follow the DNA preservation?. Australian Journal of Forensic Sciences, 0, , 1-20.	0.7	1