Giuseppe Rosace

List of Publications by Year
in descending order

73	2,295	172457	223800
papers	citations	29 h-index	46 g-index

76	76	76	1720
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical monitoring of sweat pH by a textile fabric wearable sensor based on covalently bonded litmus-3-glycidoxypropyltrimethoxysilane coating. Sensors and Actuators B: Chemical, 2016, 222, 213-220.	7.8	142
2	Effect of hybrid phosphorus-doped silica thin films produced by sol-gel method on the thermal behavior of cotton fabrics. Polymer Degradation and Stability, 2011, 96, 483-490.	5.8	131
3	Synthesis and characterization of a phosphorous/nitrogen based sol-gel coating as a novel halogen- and formaldehyde-free flame retardant finishing for cotton fabric. Polymer Degradation and Stability, 2019, 162, 148-159.	5.8	98
4	Thermal behaviour and flame retardancy of monoethanolamine-doped sol-gel coatings of cotton fabric. Progress in Organic Coatings, 2017, 103, 174-181.	3.9	91
5	Thermal and flame retardant behaviour of cotton fabrics treated with a novel nitrogen-containing carboxyl-functionalized organophosphorus system. Carbohydrate Polymers, 2018, 196, 348-358.	10.2	91
6	Phosphorus- and nitrogen-doped silica coatings for enhancing the flame retardancy of cotton: Synergisms or additive effects?. Polymer Degradation and Stability, 2013, 98, 579-589.	5.8	87
7	Novel cellulose and polyamide halochromic textile sensors based on the encapsulation of Methyl Red into a solâ€“gel matrix. Sensors and Actuators B: Chemical, 2012, 162, 27-34.	7.8	81
8	Hybrid phosphorus-doped silica architectures derived from a multistep solâ€“gel process for improving thermal stability and flame retardancy of cotton fabrics. Polymer Degradation and Stability, 2012, 97, 1334-1344.	5.8	80
9	Thermal and fire stability of cotton fabrics coated with hybrid phosphorus-doped silica films. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1207-1216.	3.6	78
10	Structural and morphological characterizations of MWCNTs hybrid coating onto cotton fabric as potential humidity and temperature wearable sensor. Sensors and Actuators B: Chemical, 2017, 252, 428-439.	7.8	69
11	Solâ€“gel derived architectures for enhancing cotton flame retardancy: Effect of pure and phosphorus-doped silica phases. Polymer Degradation and Stability, 2014, 99, 92-98.	5.8	67
12	A novel sol-gel multi-layer approach for cotton fabric finishing by tetraethoxysilane precursor. Surface and Coatings Technology, 2013, 235, 192-203.	4.8	59
13	Halochromic resorufin-GPTMS hybrid sol-gel: Chemical-physical properties and use as pH sensor fabric coating. Sensors and Actuators B: Chemical, 2017, 241, 85-95.	7.8	55
14	Synthesis, Chemicalâ€“Physical Characterization, and Biomedical Applications of Functional Gold Nanoparticles: A Review. Molecules, 2021, 26, 5823.	3.8	54
15	Thermal stability and flame retardancy of polyester fabrics solâ€“gel treated in the presence of boehmite nanoparticles. Polymer Degradation and Stability, 2013, 98, 1609-1616.	5.8	51
16	Development of a textile-optoelectronic pH meter based on hybrid xerogel doped with Methyl Red. Sensors and Actuators B: Chemical, 2012, 171-172, 1013-1021.	7.8	50
17	Photocatalytic properties and optical characterization of cotton fabric coated via solâ€“gel with nonâ€crystalline TiO2 modified with poly(ethylene glycol). Surface and Coatings Technology, 2012, 207, 79-88.	4.8	44
18	The role of pre-hydrolysis on multi step solâ€“gel processes for enhancing the flame retardancy of cotton. Cellulose, 2013, 20, 525-535.	4.9	44

#	Article	IF	Citations
19	Influence of catalyst in the synthesis of a cellulose-based sensor: Kinetic study of 3-glycidoxypropyltrimethoxysilane epoxy ring opening by Lewis acid. Sensors and Actuators B: Chemical, 2014, 203, 213-222.	7.8	44
20	Effect of GPTMS functionalization on the improvement of the pH-sensitive methyl red photostability. Sensors and Actuators B: Chemical, 2017, 238, 281-291.	7.8	44
21	Vinylphosphonic acid/methacrylamide system as a durable intumescent flame retardant for cotton fabric. Cellulose, 2017, 24, 3095-3108.	4.9	43
22	A Comparative Analysis of Nanoparticle Adsorption as Fire-Protection Approach for Fabrics. Polymers, 2015, 7, 47-68.	4.5	42
23	The Different Facets of Triclocarban: A Review. Molecules, 2021, 26, 2811.	3.8	40
24	Plasma enhanced CVD of SiOxCyHz thin film on different textile fabrics: Influence of exposure time on the abrasion resistance and mechanical properties. Applied Surface Science, 2010, 256, 2509-2516.	6.1	37
25	Hydrophobic behaviour of non-fluorinated solâ€“gel based cotton and polyester fabric coatings. Journal of Industrial Textiles, 2015, 44, 815-834.	2.4	37
26	Innovative solâ€“gel route in neutral hydroalcoholic condition to obtain antibacterial cotton finishing by zinc precursor. Journal of Sol-Gel Science and Technology, 2015, 74, 151-160.	2.4	37
27	Sol-gel 3-glycidoxypropyltriethoxysilane finishing on different fabrics: The role of precursor concentration and catalyst on the textile performances and cytotoxic activity. Journal of Colloid and Interface Science, 2017, 506, 504-517.	9.4	35
28	Thermal properties and combustion behavior of POSSâ€•and bohemiteâ€finished cotton fabrics. Journal of Applied Polymer Science, 2012, 123, 426-436.	2.6	32
29	Luminescence Properties of Platinum(II) Dithiooxamide Compounds. Inorganic Chemistry, 1996, 35, 6816-6822.	4.0	31
30	Inhibition of Human Topoisomeraseâ€...II by N,N,Nâ€Trimethylethanammonium Iodide Alkylcarbazole Derivatives. ChemMedChem, 2018, 13, 2635-2643.	3.2	28
31	Electrically conductive cotton fabric coatings developed by silica sol-gel precursors doped with surfactant-aided dispersion of vertically aligned carbon nanotubes fillers in organic solvent-free aqueous solution. Journal of Colloid and Interface Science, 2021, 586, 120-134.	9.4	24
32	Sol-gel approach to incorporate millimeter-long carbon nanotubes into fabrics for the development of electrical-conductive textiles. Materials Chemistry and Physics, 2020, 240, 122218.	4.0	23
33	Nanostructured Surface Finishing and Coatings: Functional Properties and Applications. Materials, 2021, 14, 2733.	2.9	23
34	Platinum(II) complexes of N,Nâ€²-di-nbutyldithiooxamide showing a peculiar +Nî—¸HÂ·Â·Â·Clâ‹¯ interaction. The crystal and molecular structure of bis-di-nbutyldithiooxamidato-platinum(II). Inorganica Chimica Acta, 1993, 208, 59-65.	2.4	21
35	Influence of Textile Structure and Silica Based Finishing on Thermal Insulation Properties of Cotton Fabrics. International Journal of Polymer Science, 2016, 2016, 1-10.	2.7	21
36	Nanomaterials for 3D Printing of Polymers via Stereolithography: Concept, Technologies, and Applications. Macromolecular Materials and Engineering, 2021, 306, 2100345.	3.6	21

#	Article	IF	Citations
37	High sensitivity measurements of thermal properties ofÂtextile fabrics. Polymer Testing, 2013, 32, 1029-1036.	4.8	20
38	Solâ€“Gel Treatment of Textiles for the Entrapping of an Antioxidant/Anti-Inflammatory Molecule: Functional Coating Morphological Characterization and Drug Release Evaluation. Applied Sciences (Switzerland), 2020, 10, 2287.	2.5	20
39	Design and development of wearable sensing nanomaterials for smart textiles. AIP Conference Proceedings, 2018, , .	0.4	19
40	Flame Retardant Finishing for Textiles. Engineering Materials, 2015, , 209-246.	0.6	18
41	Decomposition of a phthalocyanine dye in various conditions under UV or visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 184, 135-140.	3.9	15
42	Surface Functionalization of Cotton Fabrics by Photo-Grafting for pH Sensing Applications. Frontiers in Materials, 2020, 7, .	2.4	15
43	Organoplatinum(II) complexes containing disubstituted dithioxamides: Evidence for an S,Sâ€² Pt coordinated neutral dithioxamide acting as an anion binding agent. Inorganica Chimica Acta, 1994, 227, 63-69.	2.4	14
44	Preparation and Characterization of 3D-Printed Biobased Composites Containing Micro- or Nanocrystalline Cellulose. Polymers, 2022, 14, 1886.	4.5	14
45	Photosensitive acrylates containing bioâ€based epoxyâ€acrylate soybean oil for 3D printing application. Journal of Applied Polymer Science, 2021, 138, 51292.	2.6	13
46	Surface Modification of Polyester/Viscose Fabric with Silica Hydrosol and Amino-Functionalized Polydimethylsiloxane for the Preparation of a Fluorine-Free Superhydrophobic and Breathable Textile. Coatings, 2022, 12, 398.	2.6	13
47	Antibacterial Effect of Stainless Steel Surfaces Treated with a Nanotechnological Coating Approved for Food Contact. Microorganisms, 2021, 9, 248.	3.6	12
48	Alizarin-functionalized organic-inorganic silane coatings for the development of wearable textile sensors. Journal of Colloid and Interface Science, 2022, 617, 463-477.	9.4	11
49	Recent trends in smart textiles: Wearable sensors and drug release systems. AIP Conference Proceedings, 2019, , .	0.4	10
50	Development of a Nitrazine Yellow-glycidyl methacrylate coating onto cotton fabric through thermal-induced radical polymerization reactions: a simple approach towards wearable pH sensors applications. Cellulose, 2021, 28, 3847-3868.	4.9	10
51	Gold Derivatives Development as Prospective Anticancer Drugs for Breast Cancer Treatment. Applied Sciences (Switzerland), 2021, 11, 2089.	2.5	10
52	Sol-Gel Assisted Immobilization of Alizarin Red S on Polyester Fabrics for Developing Stimuli-Responsive Wearable Sensors. Polymers, 2022, 14, 2788.	4.5	10
53	A Wearable Sweat pH and Body Temperature Sensor Platform for Health, Fitness, and Wellness Applications. Lecture Notes in Electrical Engineering, 2014, , 431-434.	0.4	9
54	Evidence for an unexpected chiral axis in tetraethyldithiooxamide and in its platinum(II) coordination and organometallic complexes.. Tetrahedron: Asymmetry, 1993, 4, 2311-2314.	1.8	8

#	Article	IF	Citations
55	Dendrimer finishing influence on CO/PES blended fabrics color assessment. Journal of Applied Polymer Science, 2011, 120, 2122-2129.	2.6	8
56	Textile Based Colorimetric pH Sensing: A Platform for Future Wearable pH Monitoring. , 2012, , .		7
57	A wearable sensor platform to monitor sweat pH and skin temperature. , 2013, , .		7
58	Influence of lowâ€temperature plasma conditions on wicking properties of PA/PU knitted fabric. Journal of Applied Polymer Science, 2008, 107, 3702-3706.	2.6	6
59	(Î·3-Allyl-2Îº3C)(chloro-1Îº Cl)(Î¼-N,Nâ€²-diethyldithioxamidato-1:2Îº4S,Sâ€²:N,Nâ€²)[diphenyl(2-pyridyl)phosphine-1Îº P]palladium(II)pl chloroform solvate. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m316-m318.	0.4	5
60	4-[4-(Dimethylamino)benzylideneamino]-3,5-bis(2-pyridyl)-4H-1,2,4-triazole. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, o390-o391.	0.4	5
61	Low power textile-based wearable sensor platform for pH and temperature monitoring with wireless battery recharge. , 2012, , .		5
62	Delayed luminescence induced by complex domains in water and in TEOS aqueous solutions. Physical Chemistry Chemical Physics, 2016, 18, 772-780.	2.8	5
63	Ceramic coatings for water-repellent textiles. IOP Conference Series: Materials Science and Engineering, 2017, 254, 122002.	0.6	5
64	Enhancement of acid dyestuff salt-free fixation by a cationizing sol-gel based coating for cotton fabric. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125984.	4.7	5
65	Radiation protection finishes for textiles. , 2015, , 487-512.		4
66	Phosphorus-Silica Sol-Gel Hybrid Coatings for Flame Retardant Cotton Fabrics. Tekstilec, 2017, 60, 29-35.	0.6	4
67	Poly-dimethylsiloxane derivates side chains effect on syntan functionalized Polyamide fabric. Applied Surface Science, 2011, 257, 3904-3912.	6.1	3
68	Time-Course Study of the Antibacterial Activity of an Amorphous SiOxCyHz Coating Certified for Food Contact. Antibiotics, 2021, 10, 901.	3.7	3
69	5-Phenyl-9H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-8(7H)-one. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, o117-o119.	0.4	2
70	Intumescent flame retardant properties of graft copolymerized vinyl monomers onto cotton fabric. IOP Conference Series: Materials Science and Engineering, 2017, 254, 122009.	0.6	2
71	N,Nâ€²-Dibenzyldithiooxamide. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o608-o609.	0.4	0
72	Carbon nanotubes textile coating for the development of wearable sensors. , 2018, , .		0

#	Article	IF	Citations
73	A Time-Course Study on a Food Contact Material (FCM)-Certified Coating Based on Titanium Oxide Deposited onto Aluminum. Biology, 2022, 11, 97.	2.8	0