

S Mojtaba Mirabedini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4144396/publications.pdf>

Version: 2024-02-01

71
papers

3,301
citations

159525

30
h-index

149623

56
g-index

74
all docs

74
docs citations

74
times ranked

3382
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modification of TiO ₂ nano-particles with silane coupling agent and investigation of its effect on the properties of polyurethane composite coating. <i>Progress in Organic Coatings</i> , 2009, 65, 222-228.	1.9	392
2	Corrosion performance of epoxy coatings containing silane treated ZrO ₂ nanoparticles on mild steel in 3.5% NaCl solution. <i>Corrosion Science</i> , 2011, 53, 89-98.	3.0	379
3	Corrosion protection of steel by epoxy nanocomposite coatings containing various combinations of clay and nanoparticulate zirconia. <i>Corrosion Science</i> , 2013, 75, 134-141.	3.0	120
4	Evaluation of corrosion performance of a self-healing epoxy-based coating containing linseed oil-filled microcapsules via electrochemical impedance spectroscopy. <i>Progress in Organic Coatings</i> , 2017, 105, 212-224.	1.9	110
5	PMMA-grafted nanoclay as novel filler for dental adhesives. <i>Dental Materials</i> , 2009, 25, 339-347.	1.6	99
6	The adhesion properties and corrosion performance of differently pretreated epoxy coatings on an aluminium alloy. <i>Corrosion Science</i> , 2010, 52, 1948-1957.	3.0	89
7	Synthesis, characterization and enhanced photocatalytic activity of TiO ₂ /SiO ₂ nanocomposite in an aqueous solution and acrylic-based coatings. <i>Progress in Organic Coatings</i> , 2011, 72, 453-460.	1.9	88
8	Weathering performance of the polyurethane nanocomposite coatings containing silane treated TiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2011, 257, 4196-4203.	3.1	83
9	Preparation and characterization of linseed oil-filled urea-formaldehyde microcapsules and their effect on mechanical properties of an epoxy-based coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 16-26.	2.3	80
10	Adhesion performance of an epoxy clear coat on aluminum alloy in the presence of vinyl and amino-silane primers. <i>Progress in Organic Coatings</i> , 2006, 57, 307-313.	1.9	79
11	Microwave irradiation of polypropylene surface: a study on wettability and adhesion. <i>International Journal of Adhesion and Adhesives</i> , 2004, 24, 163-170.	1.4	76
12	Effect of TiO ₂ on the mechanical and adhesion properties of RTV silicone elastomer coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 317, 80-86.	2.3	74
13	Preparation and characterization of ethyl cellulose-based core-shell microcapsules containing plant oils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 394, 74-84.	2.3	73
14	Fluoroalkylsilane treatment of TiO ₂ nanoparticles in difference pH values: Characterization and mechanism. <i>Advanced Powder Technology</i> , 2012, 23, 428-436.	2.0	72
15	Effect of curing characterization on the corrosion performance of polyester and polyester/epoxy powder coatings. <i>Corrosion Science</i> , 2008, 50, 3280-3286.	3.0	71
16	Effect of low-pressure O ₂ and Ar plasma treatments on the wettability and morphology of biaxial-oriented polypropylene (BOPP) film. <i>Progress in Organic Coatings</i> , 2007, 60, 105-111.	1.9	69
17	The effect of micro and nano-sized particles on mechanical and adhesion properties of a clear polyester powder coating. <i>Progress in Organic Coatings</i> , 2013, 76, 1625-1632.	1.9	68
18	Surface analysis and anti-graffiti behavior of a weathered polyurethane-based coating embedded with hydrophobic nano silica. <i>Applied Surface Science</i> , 2012, 258, 4391-4396.	3.1	62

#	ARTICLE	IF	CITATIONS
19	Effect of silica nanoparticles surface treatment on in situ polymerization of styrene-butyl acrylate latex. <i>Progress in Organic Coatings</i> , 2013, 76, 1016-1023.	1.9	62
20	Improving self-healing performance of polyurethane coatings using PU microcapsules containing bulky-IPDI-BA and nano-clay. <i>Progress in Organic Coatings</i> , 2018, 123, 350-361.	1.9	60
21	Corrosion performance of powder coated aluminium using EIS. <i>Progress in Organic Coatings</i> , 2003, 46, 112-120.	1.9	59
22	Investigating the effect of power/time in the wettability of Ar and O ₂ gas plasma-treated low-density polyethylene. <i>Progress in Organic Coatings</i> , 2009, 64, 482-488.	1.9	55
23	Preparation and characterization of pre-silane modified ethyl cellulose-based microcapsules containing linseed oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 447, 71-80.	2.3	54
24	Effect of various combinations of zirconia and organoclay nanoparticles on mechanical and thermal properties of an epoxy nanocomposite coating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2095-2106.	3.8	53
25	Microcapsules containing multi-functional reactive isocyanate-terminated polyurethane prepolymer as a healing agent. Part 1: synthesis and optimization of reaction conditions. <i>Journal of Materials Science</i> , 2016, 51, 3056-3068.	1.7	51
26	Cure characterization of epoxy and polyester clear powder coatings using Differential Scanning Calorimetry (DSC) and Dynamic Mechanical Thermal Analysis (DMTA). <i>Progress in Organic Coatings</i> , 2005, 54, 164-169.	1.9	50
27	Study of silicone coating adhesion to an epoxy undercoat using silane compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 302, 11-16.	2.3	49
28	Silane grafting of TiO ₂ nanoparticles: dispersibility and photoactivity in aqueous solutions. <i>Surface and Interface Analysis</i> , 2012, 44, 41-47.	0.8	49
29	Evaluation of the weathering performance of basecoat/clearcoat automotive paint systems by electrochemical properties measurements. <i>Progress in Organic Coatings</i> , 2005, 54, 384-389.	1.9	32
30	Preparation of microcapsules containing multi-functional reactive isocyanate-terminated-polyurethane-prepolymer as healing agent, part II: corrosion performance and mechanical properties of a self healing coating. <i>RSC Advances</i> , 2016, 6, 50874-50886.	1.7	32
31	Development of self-healing coatings based on urea-formaldehyde/polyurethane microcapsules containing epoxy resin. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49663.	1.3	31
32	Preparation of self-healing acrylic latex coatings using novel oil-filled ethyl cellulose microcapsules. <i>Progress in Organic Coatings</i> , 2015, 85, 168-177.	1.9	30
33	Surface Properties of Low Density Polyethylene upon Low-Temperature Plasma Treatment with Various Gases. <i>Plasma Chemistry and Plasma Processing</i> , 2008, 28, 377-390.	1.1	29
34	Application of mixture experimental design to optimize formulation and performance of thermoplastic road markings. <i>Progress in Organic Coatings</i> , 2012, 75, 549-559.	1.9	29
35	Investigating the role of surface treated titanium dioxide nanoparticles on self-cleaning behavior of an acrylic facade coating. <i>Journal of Coatings Technology Research</i> , 2013, 10, 175-187.	1.2	28
36	Mechanical and self-healing properties of a water-based acrylic latex containing linseed oil filled microcapsules: Effect of pre-silanization of microcapsules' shell compound. <i>Composites Part B: Engineering</i> , 2016, 85, 305-314.	5.9	28

#	ARTICLE	IF	CITATIONS
37	Surface treatment of TiO ₂ nanoparticles via sol-gel method: Effect of silane type on hydrophobicity of the nanoparticles. <i>Progress in Organic Coatings</i> , 2015, 87, 36-44.	1.9	27
38	Preparation of Microcapsules Containing Benzoyl Peroxide Initiator with Gelatin-Gum Arabic/Polyurea-Formaldehyde Shell and Evaluating Their Storage Stability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20818-20825.	4.0	27
39	Investigating the antigraffiti properties of a polyurethane clearcoat containing a silicone polyacrylate additive. <i>Journal of Coatings Technology Research</i> , 2011, 8, 497-503.	1.2	26
40	Investigating the surface properties of polyurethane based anti-graffiti coatings against UV exposure. <i>Journal of Applied Polymer Science</i> , 2012, 124, 3082-3091.	1.3	26
41	Polyurethane-based microcapsules containing reactive isocyanate compounds: Study on preparation procedure and solvent replacement. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 750-759.	2.3	26
42	Comparison of drag characteristics of self-polishing co-polymers and silicone foul release coatings: A study of wettability and surface roughness. <i>Progress in Organic Coatings</i> , 2006, 57, 421-429.	1.9	25
43	Effect of silane-based treatment on the adhesion strength of acrylic lacquers on the PP surfaces. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 519-526.	1.4	24
44	Microencapsulation of quinoline and cerium based inhibitors for smart coating application: Anti-corrosion, morphology and adhesion study. <i>Progress in Organic Coatings</i> , 2019, 137, 105339.	1.9	24
45	APS-silane modification of silica nanoparticles: effect of treatment's variables on the grafting content and colloidal stability of the nanoparticles. <i>Journal of Coatings Technology Research</i> , 2014, 11, 651-660.	1.2	20
46	Photocatalytic activity of water-based acrylic coatings containing fluorosilane treated TiO ₂ nanoparticles. <i>Progress in Organic Coatings</i> , 2014, 77, 1325-1335.	1.9	19
47	Amino-silane surface modification of urea-formaldehyde microcapsules containing linseed oil for improved epoxy matrix compatibility. Part I: Optimizing silane treatment conditions. <i>Progress in Organic Coatings</i> , 2019, 136, 105242.	1.9	18
48	Photocatalytic activity and colloidal stability of various combinations of TiO ₂ /SiO ₂ nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 3219-3230.	1.7	17
49	Enhancing thermoplastic road-marking paints performance using sustainable rosin ester. <i>Progress in Organic Coatings</i> , 2020, 139, 105454.	1.9	16
50	Adhesive strength of powder coated aluminium substrates. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 484-494.	1.4	14
51	Curing of poly(furfuryl alcohol) resin catalyzed by a homologous series of dicarboxylic acid catalysts: Kinetics and pot life. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	13
52	Effect of processing conditions on the microencapsulation of 1-methylimidazole curing agent using solid epoxy resins. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 629-637.	1.3	13
53	A novel two-component self-healing coating comprising vinyl ester resin-filled microcapsules with prolonged anticorrosion performance. <i>Progress in Organic Coatings</i> , 2021, 154, 106220.	1.9	12
54	Correlating the adhesion of an acrylic coating to the physico-mechanical behavior of a polypropylene substrate. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 220-225.	1.4	10

#	ARTICLE	IF	CITATIONS
55	Microencapsulation of 1-methylimidazole using solid epoxy resin: study on microcapsule residence time and properties of the system. Iranian Polymer Journal (English Edition), 2016, 25, 385-394.	1.3	10
56	Bio-based furan coatings: adhesion, mechanical and thermal properties. Polymer Bulletin, 2021, 78, 577-599.	1.7	10
57	Rheokinetics in curing process of polyfurfuryl alcohol: effect of homologous acid catalysts. Iranian Polymer Journal (English Edition), 2017, 26, 281-293.	1.3	9
58	Investigating changes in electrochemical properties when nano-silica is incorporated into an acrylic-based polyurethane clearcoat. Journal of Coatings Technology Research, 2012, 9, 195-201.	1.2	8
59	Curing of polyfurfuryl alcohol resin catalyzed by a homologous series of dicarboxylic acid catalysts. II. Swelling behavior and thermal properties. Journal of Applied Polymer Science, 2018, 135, 45770.	1.3	8
60	Durability and mechanical performance of a photo-catalytic water-based nanocomposite coating. Progress in Organic Coatings, 2017, 112, 254-262.	1.9	7
61	Studies of the Mechanical Properties and Practical Coating Adhesion on PP Modified by Oxidized Wax. Journal of Adhesion Science and Technology, 2010, 24, 1113-1129.	1.4	6
62	Glycidyl Methacrylate Copolymers Modified with CO ₂ . Soft Materials, 2013, 11, 430-439.	0.8	6
63	Thermooxidative reactions of polypropylene wax in the molten state. Journal of Applied Polymer Science, 2009, 111, 2703-2710.	1.3	4
64	Ionomers as self-healing materials. , 2020, , 279-291.		4
65	Composites and Nanocomposites of PU Polymers Filled with Natural Fibers and Their Nanofibers. , 2017, , 253-276.		3
66	Nanocomposites of PU Polymers Filled With Spherical Fillers. , 2017, , 135-172.		2
67	Self-healing polymeric coatings containing microcapsules filled with active materials. , 2020, , 235-258.		2
68	Effect of Hydroxyl Value of Acrylic Resin on the Anti-graffiti Properties of Acrylic-PU Nanocoating. , 2020, , 316-319.		0
69	Hardness and Chemorheological Properties of Chemically-Modified Polyfurfuryl Alcohol Resin. , 2020, , 247-250.		0
70	Protection of Structural Buildings Against Dirt Adsorption: Photoactive Cements vs. Photoactive Coating. , 2020, , 174-177.		0
71	Degradation of Pollutants in Solid and Gas States Using Waterborne Acrylic Nanocomposite Paints. SSRN Electronic Journal, 0, , .	0.4	0