Yolanda Castro

List of Publications by Year
in descending order

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90	2,241	186265 28	254184 43
papers	citations	h-index	g-index

93	93	93	2284
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of photocatalysts based on TiO₂ films with embedded Ag nanoparticles. International Journal of Applied Glass Science, 2022, 13, 429-443.	2.0	1
2	Hybrid Epoxy-Alkyl Solâ€“Gel Coatings Reinforced with SiO2 Nanoparticles for Corrosion Protection of Anodized AZ31B Mg Alloy. Gels, 2022, 8, 242.	4.5	11
3	Electrochemical Characterization of Polymeric Coatings for Corrosion Protection: A Review of Advances and Perspectives. Polymers, 2022, 14, 2306.	4.5	28
4	Glasses and Glass-Ceramics Prepared by Solâ€“Gel. , 2021, , 695-708.		2
5	Crystallization Process and Site-Selective Excitation of Nd3+ in LaF3/NaLaF4 Solâ€“Gel-Synthesized Transparent Glass-Ceramics. Crystals, 2021, 11, 464.	2.2	6
6	Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. Polymers, 2021, 13, 2545.	4.5	9
7	Nd3+doped- SiO2â€“KLaF4 oxyfluoride glass-ceramics prepared by sol-gel. Journal of Luminescence, 2021, 235, 118035.	3.1	4
8	Integrated corrosionâ€resistant system for AZ31B Mg alloy via plasma electrolytic oxidation (PEO) and solâ€gel processes. International Journal of Applied Glass Science, 2021, 12, 519-530.	2.0	8
9	Hybrid SiO2â€“ZrO2 coatings for restoring and repairing glasses damaged by sandblasting. Ceramics International, 2020, 46, 10634-10640.	4.8	4
10	A new solâ€“gel route towards Nd³⁺-doped SiO₂â€“LaF₃ glass-ceramics for photonic applications. Materials Advances, 2020, 1, 3589-3596.	5.4	11
11	58S and 68S sol-gel glass-like bioactive coatings for enhancing the implant performance of AZ91D magnesium alloy. Surface and Coatings Technology, 2020, 400, 126224.	4.8	30
12	Processing and Study of Optical and Electrical Properties of (Mg, Al) Co-Doped ZnO Thin Films Prepared by RF Magnetron Sputtering for Photovoltaic Application. Materials, 2020, 13, 2146.	2.9	13
13	Hybrid Solâ€“Gel Silica Coatings Containing Graphene Nanosheets for Improving the Corrosion Protection of AA2024-T3. Nanomaterials, 2020, 10, 1050.	4.1	11
14	Integrated self-healing coating system for outstanding corrosion protection of AA2024. Surface and Coatings Technology, 2020, 387, 125521.	4.8	34
15	SiO₂-TiO₂ Films Supported on Ignimbrite by Spray Coating for the Photocatalytic Degradation of NO_x Gas and Methyl Orange Dye. International Journal of Photoenergy, 2020, 2020, 1-6.	2.5	9
16	Lanthanide-doped oxyfluoride transparent glassâ€“ceramics prepared by solâ€“gel. , 2020, , 227-252.		1
17	Transparent SiO2-GdF3 solâ€“gel nano-glass ceramics for optical applications. Journal of Sol-Gel Science and Technology, 2019, 89, 322-332.	2.4	24
18	Novel sol-gel SiO2-NaGdF4 transparent nano-glass-ceramics. Journal of Non-Crystalline Solids, 2019, 520, 119447.	3.1	15

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19	Transparent Sol-Gel Oxyfluoride Glass-Ceramics with High Crystalline Fraction and Study of RE Incorporation. Nanomaterials, 2019, 9, 530.	4.1	21
20	Control of degradation rate of Mg alloys using silica solâ€“gel coatings for biodegradable implant materials. Journal of Sol-Gel Science and Technology, 2019, 90, 198-208.	2.4	27
21	Hydrophobic and oleophobic solâ€gel coatings on glass substrates for usage at high temperatures. International Journal of Applied Glass Science, 2018, 9, 413-420.	2.0	6
22	Hybrid solâ€“gel coatings based on GPTMS/TEOS containing colloidal SiO2 and cerium nitrate for increasing corrosion protection of aluminium alloy 7075-T6. Journal of Sol-Gel Science and Technology, 2018, 85, 546-557.	2.4	43
23	80SiO₂â€20LaF₃ oxyfluoride glass ceramic coatings doped with Nd³⁺ for optical applications. International Journal of Applied Glass Science, 2018, 9, 208-217.	2.0	13
24	Self-Healing Effect of Hybrid Sol-Gel Coatings Based on GPTMS, TEOS, SiO₂Nanoparticles and Ce(NO₃)₃Applied on Aluminum Alloy 7075-T6. Journal of the Electrochemical Society, 2018, 165, C213-C225.	2.9	42
25	Protective nature of nano-TiN coatings shaped by EPD on Ti substrates. Journal of the European Ceramic Society, 2018, 38, 495-500.	5.7	17
26	Crystallization mechanism in sol-gel oxyfluoride glass-ceramics. Journal of Non-Crystalline Solids, 2018, 501, 145-152.	3.1	28
27	Transparent Glass-Ceramics Produced by Sol-Gel: A Suitable Alternative for Photonic Materials. Materials, 2018, 11, 212.	2.9	42
28	Sol-Gel Protective Coatings for Metals. , 2018, , 2369-2433.		3
29	Synthesis of mesoporous silica nanoparticles by solâ€“gel as nanocontainer for future drug delivery applications. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2017, 56, 139-145.	1.9	145
30	Oxyfluoride glassâ€“ceramic fibers doped with Nd3+: structural and optical characterization. CrystEngComm, 2017, 19, 6620-6629.	2.6	20
31	Surface Modification of Powder Metallurgy Titanium by Colloidal Techniques and Diffusion Processes for Biomedical Applications. Advanced Engineering Materials, 2017, 19, 1600207.	3.5	6
32	Magnesium Alloys Implants Coated with 58S Sol-Gel Bioactive Glass to Retard First Stage Corrosion. Corrosion, 2017, 73, 1448-1460.	1.1	12
33	Oxyfluoride transparent glass-ceramics: a promising family of materials for photonic applications. , 2017, , .		0
34	Sol Gel Glass Coating on Magnesium Alloys to be Used As Temporary Implants: Electrochemical and Surface Study in Simulated Body Fluid. ECS Meeting Abstracts, 2017, , .	0.0	0
35	Ca doping of mesoporous TiO2 films for enhanced photocatalytic efficiency under solar irradiation. Journal of Sol-Gel Science and Technology, 2016, 78, 482-491.	2.4	19
36	Glass-like cerium sol-gel coatings on AZ31B magnesium alloy for controlling the biodegradation of temporary implants. Surface and Coatings Technology, 2016, 307, 574-582.	4.8	23

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37	Synthesis and properties of TiO2-P2O5 and SiO2-TiO2-P2O5 porous hybrids obtained by templating in highly concentrated emulsions. Ceramics International, 2016, 42, 18965-18973.	4.8	4
38	Improvement of TiN nanoparticles EPD inducing steric stabilization in non-aqueous suspensions. Journal of the European Ceramic Society, 2016, 36, 307-317.	5.7	28
39	Solâ€“Gel Protective Coatings for Metals. , 2016, , 1-65.		1
40	Epd: From Order to Chaos By the LbL Modification of the Particle Surfaces. ECS Meeting Abstracts, 2016, , .	0.0	0
41	Mesostructured HSO 3 -functionalized TiO 2 -P 2 O 5 sol-gel films prepared by evaporation induced self-assembly method with high proton conductivity. Electrochimica Acta, 2015, 173, 215-222.	5.2	4
42	Enhanced photocatalytic activity of mesoporous SiO2/TiO2 solâ€“gel coatings doped with Ag nanoparticles. Journal of Sol-Gel Science and Technology, 2015, 76, 180-194.	2.4	28
43	Synthesis and characterization of erbium-doped SiO2-TiO2 thin films prepared by sol-gel and dip-coating techniques onto commercial glass substrates as a route for obtaining active GRadient-INdex materials. Thin Solid Films, 2015, 583, 115-121.	1.8	12
44	Recubrimientos vÃtreos de cerio para la protecciÃ³n activa de aleaciones de aluminio. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 28-36.	1.9	0
45	Synthesis and photocatalytic characterisation of mesoporous TiO2 films doped with Ca, W and N. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 11-20.	1.9	20
46	Solâ€“gel hybrid membranes loaded with meso/macroporous SiO2, TiO2â€“P2O5 and SiO2â€“TiO2â€“P2O5 materials with high proton conductivity. Materials Chemistry and Physics, 2015, 149-150, 686-694.	4.0	18
47	Repair and Restoration of the Optical Properties of Sandblasted Glasses By Silicaâ€Based Solâ€Gel Coatings. International Journal of Applied Glass Science, 2015, 6, 94-102.	2.0	5
48	Electric field driven assembly of hybrid micelles for shaping of porous silica films. Advances in Applied Ceramics, 2014, 113, 28-34.	1.1	3
49	Mesoporous and mesostructured TiO2 coatings for photocatalytic applications. Journal of Sol-Gel Science and Technology, 2014, 70, 254-262.	2.4	5
50	One-pot manufacture of nanoparticle-based films in aqueous media via an electric field-driven assembly process. Green Chemistry, 2014, 16, 3286-3296.	9.0	8
51	Photocatalytic and biocidal activities of novel coating systems of mesoporous and dense TiO2-anatase containing silver nanoparticles. Materials Science and Engineering C, 2014, 43, 630-640.	7.3	32
52	Recubrimientos meso-porosos de SiO₂-TiO₂-P₂O₅ para aplicaciones en pilas de combustible de intercambio protÃ³nico. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2014, 53, 171-178.	1.9	2
53	Nanostructured glass coatings for solar control with photocatalytic properties. Journal of Non-Crystalline Solids, 2013, 377, 250-253.	3.1	9
54	Resistencia al desgaste de recubrimientos sol-gel de SiO₂ y SiO₂ - ZrO₂ sobre materiales vitrocerÃ¡micos obtenidos por sinterizaciÃ³n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2013, 52, 225-230.	1.9	1

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55	Multiscale numerical modeling of Ce³⁺-inhibitor release from novel corrosion protection coatings. Modelling and Simulation in Materials Science and Engineering, 2011, 19, 025009.	2.0	7
56	Glass-like CexOy solâ€“gel coatings for corrosion protection of aluminium and magnesium alloys. Surface and Coatings Technology, 2011, 206, 257-264.	4.8	31
57	Solâ€“gel coatings: An alternative route for producing planar optical waveguides. Thin Solid Films, 2011, 519, 7982-7986.	1.8	19
58	Development and industrial scale-up of ZrO2 coatings and hybrid organicâ€“inorganic coatings used as pre-treatments before painting aluminium alloys. Progress in Organic Coatings, 2011, 72, 3-14.	3.9	41
59	Photocatalytic degradation of TCE in dry and wet air conditions with TiO2 porous thin films. Applied Catalysis B: Environmental, 2011, 108-109, 14-21.	20.2	38
60	Photocatalytic oxidation of methyl ethyl ketones over solâ€“gel mesoporous and meso-structured TiO2 films obtained by EISA method. Applied Catalysis B: Environmental, 2011, 107, 52-58.	20.2	30
61	Influence of cerium concentration on the structure and properties of silica-methacrylate solâ€“gel coatings. Journal of Sol-Gel Science and Technology, 2010, 54, 301-311.	2.4	36
62	Optimization of hybrid solâ€“gel coatings by combination of layers with complementary properties for corrosion protection of AA2024. Progress in Organic Coatings, 2010, 69, 167-174.	3.9	60
63	Photocatalytic properties in aqueous solution of porous TiO2-anatase films prepared by solâ€“gel process. Applied Catalysis A: General, 2010, 385, 101-107.	4.3	61
64	Photocatalytic-based strategies for H2S elimination. Catalysis Today, 2010, 151, 64-70.	4.4	61
65	Inhibition effect of cerium in hybrid solâ€“gel films on aluminium alloy AA2024. Surface and Interface Analysis, 2010, 42, 299-305.	1.8	48
66	Improved corrosion resistance of AA2024 alloys through hybrid organicâ€“inorganic solâ€“gel coatings produced from sols with controlled polymerisation. Surface and Coatings Technology, 2009, 203, 1897-1903.	4.8	64
67	Synthesis and photocatalytic properties of dense and porous TiO2-anatase thin films prepared by solâ€“gel. Applied Catalysis B: Environmental, 2009, 86, 1-7.	20.2	174
68	SiO2 based hybrid inorganicâ€“organic films doped with TiO2â€“CeO2 nanoparticles for corrosion protection of AA2024 and Mg-AZ31B alloys. Corrosion Science, 2009, 51, 1998-2005.	6.6	77
69	Electrochemical behaviour of silica basic hybrid coatings deposited on stainless steel by dipping and EPD. Electrochimica Acta, 2008, 53, 6008-6017.	5.2	32
70	Protection and surface modification of metals with solâ€“gel coatings. International Materials Reviews, 2007, 52, 175-192.	19.3	65
71	Synthesis, characterization and optical properties of Eu2O3mesoporous thin films. Nanotechnology, 2007, 18, 055705.	2.6	34
72	Preparation, structural and optical characterization of rare earth doped mesoporous Y2O3 thin films by EISA method. Microporous and Mesoporous Materials, 2007, 103, 273-279.	4.4	24

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73	Solutions of hybrid silica microgels as precursors of solâ€“gel coatings. Journal of Materials Chemistry, 2006, 16, 3318-3325.	6.7	28
74	Synthesis and characterisation of proton conducting styrene-co-methacrylate?silica sol?gel membranes containing tungstophosphoric acid. Solid State Ionics, 2005, 176, 333-340.	2.7	68
75	Corrosion behaviour of silica hybrid coatings produced from basic catalysed particulate sols by dipping and EPD. Surface and Coatings Technology, 2005, 191, 228-235.	4.8	51
76	Proton Conducting Organic/Inorganic Solâ€“Gel Membranes Produced from Phenyltriethoxysilane and 3-Methacryloxypropyl Trimethoxysilane. Journal of Sol-Gel Science and Technology, 2005, 34, 233-239.	2.4	22
77	Silica-Zirconia Solâ€“Gel Coatings Obtained by Different Synthesis Routes. Journal of Sol-Gel Science and Technology, 2005, 35, 41-50.	2.4	41
78	Silica-Zirconia Coatings Produced by Dipping and EPD from Colloidal Solâ€“Gel Suspensions. Journal of Sol-Gel Science and Technology, 2005, 35, 51-55.	2.4	12
79	Effect of rheology and processing parameters on the EPD coatings of basic sol-gel particulate sol. Journal of Materials Science, 2004, 39, 845-849.	3.7	13
80	Coatings produced by electrophoretic deposition from nano-particulate silica solâ€“gel suspensions. Surface and Coatings Technology, 2004, 182, 199-203.	4.8	72
81	Mechanical behavior of glass reinforced with SiO2 hybrid solâ€“gel coatings. Journal of Non-Crystalline Solids, 2004, 348, 172-179.	3.1	17
82	Hybrid Sol-Gel Coatings Produced from TEOS and Î³-MPS. Journal of Sol-Gel Science and Technology, 2003, 28, 81-86.	2.4	39
83	Silica Sol-Gel Coatings on Metals Produced by EPD. Journal of Sol-Gel Science and Technology, 2003, 26, 735-739.	2.4	30
84	Thick Sol-Gel Coatings Produced by Electrophoretic Deposition. Advanced Materials, 2002, 14, 505-508.	21.0	43
85	Electrophoretic Deposition (EPD) Coatings of Sol-Gel Solutions and Suspensions. Journal of Sol-Gel Science and Technology, 2002, 23, 187-189.	2.4	10
86	Recubrimientos sol-gel obtenidos por deposiciÃ³n electroforÃ©tica (EPD) sobre metales. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 705-710.	1.9	5
87	Dispersion and Stabilization of TiN and TiC Nanoparticles in Organic Suspensions. Key Engineering Materials, 0, 654, 203-207.	0.4	4
88	Improving corrosion protection of Mg alloys (AZ31B) using grapheneâ€based hybrid coatings. International Journal of Applied Glass Science, 0, , .	2.0	4
89	The Role of Silane Sol-Gel Coatings on the Corrosion Protection of Magnesium Alloys. , 0, , .		1
90	Transparent oxyfluoride glass-ceramics obtained by different sol-gel routes. Journal of Sol-Gel Science and Technology, 0, , 1.	2.4	10