Manuel Houmard

List of Publications by Year
in descending order

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52	1,052	393982	476904
papers	citations	19	29
		h-index	g-index

53	53	53	1308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Morphology and natural wettability properties of solâ€“gel derived TiO2â€“SiO2 composite thin films. Applied Surface Science, 2007, 254, 1405-1414.	3.1	101
2	On the structural, mechanical, and biodegradation properties of HA/Î²-TCP robocast scaffolds. , 2013, 101, 1233-1242.		89
3	Natural and persistent superhydrophilicity of SiO2/TiO2 and TiO2/SiO2 bi-layer films. Thin Solid Films, 2008, 516, 957-966.	0.8	68
4	Enhanced persistence of natural super-hydrophilicity in TiO2â€“SiO2 composite thin films deposited via a solâ€“gel route. Surface Science, 2008, 602, 3364-3374.	0.8	63
5	Synthesis and structural evaluation of freeze-cast porous alumina. Materials Characterization, 2014, 96, 183-195.	1.9	48
6	Enhanced cleanability of super-hydrophilic TiO2â€“SiO2 composite surfaces prepared via a solâ€“gel route. Surface Science, 2011, 605, 456-462.	0.8	40
7	Simple solâ€“gel process to obtain silica-coated anatase particles with enhanced TiO2-SiO2 interfacial area. Journal of Colloid and Interface Science, 2014, 433, 211-217.	5.0	34
8	Development of a flexible nanocomposite TiO2 film as a protective coating for bioapplications of superelastic NiTi alloys. Applied Surface Science, 2016, 375, 42-49.	3.1	34
9	Simple process for preparing mesoporous sol-gel silica adsorbents with high water adsorption capacities. Microporous and Mesoporous Materials, 2017, 253, 177-182.	2.2	34
10	Solâ€“gel method to fabricate CaP scaffolds by robocasting for tissue engineering. Journal of Materials Science: Materials in Medicine, 2012, 23, 921-930.	1.7	33
11	Correlation between solâ€“gel reactivity and wettability of silica films deposited on stainless steel. Applied Surface Science, 2014, 289, 218-223.	3.1	32
12	A two-scale Weibull approach to the failure of porous ceramic structures made by robocasting: Possibilities and limits. Journal of the European Ceramic Society, 2013, 33, 679-688.	2.8	29
13	Surface charges of oxides and wettability: Application to TiO2â€“SiO2 composite films. Applied Surface Science, 2013, 287, 37-45.	3.1	26
14	Effect of the carbon loading on the structural and photocatalytic properties of reduced graphene oxide-TiO2 nanocomposites prepared by hydrothermal synthesis. Journal of Materials Research and Technology, 2019, 8, 6262-6274.	2.6	26
15	Water and oil wettability of hybrid organicâ€“inorganic titanateâ€“silicate thin films deposited via a solâ€“gel route. Surface Science, 2009, 603, 2698-2707.	0.8	24
16	Hydrophobic functionalization of cotton-based textile fabrics through a non-fluorinated solâ€“gel route. Journal of Sol-Gel Science and Technology, 2010, 55, 243-254.	1.1	23
17	Effect of titania addition on the properties of freeze-cast alumina samples. Ceramics International, 2015, 41, 10467-10475.	2.3	23
18	Enhancement of NiTi superelastic endodontic instruments by TiO2 coating. Materials Science and Engineering C, 2016, 68, 675-680.	3.8	22

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19	Evaluation of the pozzolanicity of nanostructured sol-gel silica and silica fume by electrical conductivity measurement. Construction and Building Materials, 2018, 160, 252-257.	3.2	20
20	Solvent effect on the structure and photocatalytic behavior of TiO₂-RGO nanocomposites. Journal of Materials Research, 2019, 34, 3918-3930.	1.2	19
21	Gamma sterilization of collagen/hydroxyapatite composites: Validation and radiation effects. Applied Radiation and Isotopes, 2021, 174, 109758.	0.7	18
22	The influence of Fe2O3 doping on the pore structure and mechanical strength of TiO2-containing alumina obtained by freeze-casting. Ceramics International, 2015, 41, 14049-14056.	2.3	16
23	Influence of the synthesis parameters on the mesoporous structure and adsorption behavior of silica xerogels fabricated by solâ€“gel technique. Journal of Sol-Gel Science and Technology, 2019, 92, 681-694.	1.1	16
24	Freeze-cast composite scaffolds prepared from sol-gel derived 58S bioactive glass and polycaprolactone. Ceramics International, 2019, 45, 9891-9900.	2.3	16
25	Macroporous alumina structures tailored by freeze-casting using naphthaleneâ€“camphor as freezing vehicle. Ceramics International, 2018, 44, 16010-16016.	2.3	15
26	Spectroscopic study of natural quartz samples. Radiation Physics and Chemistry, 2013, 90, 79-86.	1.4	13
27	Fabrication and characterization of dicalcium phosphate coatings deposited on magnesium substrates by a chemical conversion route. Surface and Coatings Technology, 2020, 386, 125505.	2.2	13
28	Fabrication of porous samples from a high-temperature Cuâ€“Alâ€“Niâ€“Mnâ€“Nb shape memory alloy by freeze-drying and partial sintering. Journal of Materials Research and Technology, 2020, 9, 3676-3685.	2.6	13
29	Development of functional TiO2 coatings deposited on cementitious materials. Construction and Building Materials, 2020, 250, 118732.	3.2	13
30	Post-synthetic modification of aluminum trimesate and copper trimesate with TiO2 nanoparticles for photocatalytic applications. Journal of Materials Science, 2022, 57, 4481-4503.	1.7	12
31	Characterization of Ceramics Coatings Processed by Sol-Gel for Cutting Tools. Coatings, 2019, 9, 755.	1.2	11
32	Drilling of aluminium/PE sandwich material with a novel TiO2-coated HSS drill deposited by solâ€“gel process. International Journal of Advanced Manufacturing Technology, 2017, 92, 1567-1577.	1.5	10
33	Facile solâ€“gel synthesis of silica sorbents for the removal of organic pollutants from aqueous media. Journal of Materials Research and Technology, 2021, 15, 4580-4594.	2.6	9
34	Surface physico-chemistry study of an austenitic stainless steel: Effect of simple cold rolling treatment on surface contamination. Corrosion Science, 2007, 49, 2602-2611.	3.0	8
35	Erosive Wear Study of the AISI 201LN Stainless Steel: A Comparison with the AISI 304 and AISI 410 Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1663-1671.	1.1	8
36	Drilling of nodular cast iron with a novel SiO2 coating deposited by sol-gel process in HSS drill. International Journal of Advanced Manufacturing Technology, 2019, 105, 4837-4849.	1.5	8

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37	Easy functionalization process applied to develop superâ€hydrophobic and oleophobic properties on ASTM 1200 aluminum surface. Surface and Interface Analysis, 2018, 50, 1370-1383.	0.8	7
38	Influence of the nanostructure of silica supports on the growth and morphology of MWCNTs synthesized by CCVD method. Ceramics International, 2019, 45, 13297-13307.	2.3	7
39	Clarifying the roles of hydrothermal treatment and silica addition to synthesize TiO2-based nanocomposites with high photocatalytic performance. Journal of Sol-Gel Science and Technology, 2020, 95, 119-135.	1.1	7
40	Preparation of titania-reduced graphene oxide composite coatings with electro- and photosensitive properties. Applied Surface Science, 2021, 538, 148029.	3.1	7
41	Synthesis and structural characterization of potato starch sponges. Journal of Non-Crystalline Solids, 2012, 358, 2663-2666.	1.5	6
42	Structural investigation of cobalt-doped silica derived from solâ€“gel synthesis. Journal of Non-Crystalline Solids, 2013, 378, 1-6.	1.5	6
43	Preparation of Al2O3 and MgAl2O4-based samples with tailored macroporous structures. Ceramics International, 2018, 44, 580-587.	2.3	6
44	Polyvinyl alcohol/<scp>multiâ€walled</scp>carbon nanotubes nanocomposites with ordered macroporous structures prepared by<scp>iceâ€templating</scp>. Journal of Applied Polymer Science, 2021, 138, 49837.	1.3	4
45	Simple preparation of 58S bioactive glass/polycaprolactone composite scaffolds by freeze-drying under ambient conditions. Materials Letters, 2019, 256, 126647.	1.3	3
46	Deliquescent behavior of calcium phosphate materials synthesized by solâ€“gel technique. Journal of Sol-Gel Science and Technology, 2021, 97, 404-413.	1.1	3
47	Surface modification of magnesium with a novel composite coating for application in bone tissue engineering. Surface and Coatings Technology, 2022, 433, 128078.	2.2	3
48	Recent Advances and New Discussions on Superhydrophobic Coatings and Admixtures Applied to Cementitious Materials. Open Construction and Building Technology Journal, 2020, 14, 400-409.	0.3	2
49	Structural and photocatalytic properties of solâ€“gel-derived TiO2 samples prepared by conventional and hydrothermal methods using a low amount of water. Journal of Sol-Gel Science and Technology, 2022, 103, 97-107.	1.1	2
50	Heat treatment as a key factor for enhancing the photodegradation performance of hydrothermally-treated solâ€“gel TiO2â€“SiO2 nanocomposites. Journal of Sol-Gel Science and Technology, 2021, 99, 188.	1.1	1
51	TiO2 Sol-gel Coating as a Transducer Substrate for Impedimetric Immunosensors. Chemical and Biochemical Engineering Quarterly, 2020, 33, 437-447.	0.5	1
52	Influence of the Fe-based catalyst incorporation method on the carbon nanotube structure of hybrid composites synthesized by CCVD method using methane and without hydrogen reduction step. Ceramics International, 2021, 47, 6928-6939.	2.3	0