List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Inorganic gels for immobilization of biocatalysts: inclusion of invertase-active whole cells of yeast (saccharomyces cerevisiae) into thin layers of SiO2 gel deposited on glass sheets. Journal of Molecular Catalysis, 1989, 57, L13-L16.	1.2	129
2	Sol–gel synthesis of siloxane–oxide hybrid coatings [Si(CH3)2O·MOx: M = Si, Ti, Zr, Al] with luminescent properties. Journal of Materials Chemistry, 1992, 2, 239-244.	6.7	118
3	Synthesis and characterization of strontium-substituted hydroxyapatite nanoparticles for bone regeneration. Materials Science and Engineering C, 2017, 71, 653-662.	7.3	117
4	Entrapment of viable microorganisms by SiO2 sol-gel layers on glass surfaces: Trapping, catalytic performance and immobilization durability of Saccharomyces cerevisiae. Journal of Biotechnology, 1993, 30, 197-210.	3.8	111
5	XPS studies of SiO2-TiO2 powders prepared by sol-gel process. Applied Surface Science, 1993, 70-71, 230-234.	6.1	95
6	Electrical conductivity of tin oxide films prepared by the sol-gel method. Journal of Non-Crystalline Solids, 1990, 121, 365-369.	3.1	78
7	Solid state NMR and IR characterization of wood polymer structure in relation to tree provenance. Carbohydrate Polymers, 2015, 117, 710-721.	10.2	78
8	MoS2 Based Photodetectors: A Review. Sensors, 2021, 21, 2758.	3.8	77
9	Influence of the polymer architecture on the high temperature behavior of SiCO glasses: A comparison between linear- and cyclic-derived precursors. Journal of Non-Crystalline Solids, 2010, 356, 132-140.	3.1	65
10	Immobilization of yeast and bacteria cells in alginate microbeads coated with silica membranes: procedures, physico-chemical features and bioactivity. Journal of Materials Chemistry, 2008, 18, 4839.	6.7	59
11	Effect of Na-Montmorillonite sonication on the protective properties of hybrid silica coatings. Electrochimica Acta, 2014, 124, 90-99.	5.2	58
12	ZnO nanoparticles anchored to silica filler. A curing accelerator for isoprene rubber composites. Chemical Engineering Journal, 2015, 275, 245-252.	12.7	55
13	In Situ 3D Printing: Opportunities with Silk Inks. Trends in Biotechnology, 2021, 39, 719-730.	9.3	54
14	Silicon Oxycarbide Glasses from Sol-Gel Precursors. Materials Research Society Symposia Proceedings, 1992, 271, 789.	0.1	53
15	Pyrolysis Chemistry of Solâ^'Gel-Derived Poly(dimethylsiloxane)â^'Zirconia Nanocomposites. Influence of Zirconium on Polymer-to-Ceramic Conversion. Chemistry of Materials, 1998, 10, 268-278.	6.7	46
16	Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. Materials, 2019, 12, 1286.	2.9	45
17	Influence of Ce 3+ doping on molecular organization of Si-based organic/inorganic sol-gel layers for corrosion protection. Applied Surface Science, 2017, 414, 82-91.	6.1	42
18	Micro- and nano-hydroxyapatite as active reinforcement for soft biocomposites. International Journal of Biological Macromolecules, 2015, 72, 199-209.	7.5	41

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19	Unsupported SiO2-based organic–inorganic membranes. Journal of Materials Chemistry, 1997, 7, 67-73.	6.7	39
20	Structural and Microstructural Evolution During Pyrolysis of Hybrid Polydimethylsiloxane-Titania Nanocomposites. Journal of Sol-Gel Science and Technology, 2005, 34, 53-62.	2.4	38
21	Thermal evolution and crystallisation of polydimethylsiloxane–zirconia nanocomposites prepared by the sol–gel method. Journal of the European Ceramic Society, 1999, 19, 2849-2858.	5.7	37
22	Synthesis and characterization of siloxane-titania materials. Journal of Non-Crystalline Solids, 1992, 147-148, 62-66.	3.1	36
23	Size-controlled self-assembly of anisotropic sepiolite fibers in rubber nanocomposites. Applied Clay Science, 2018, 152, 51-64.	5.2	35
24	Effect of functional groups on condensation and properties of sol–gel silica nanoparticles prepared by direct synthesis from organoalkoxysilanes. Materials Chemistry and Physics, 2011, 126, 909-917.	4.0	34
25	A comparative analysis of surface structure and surface tension of hybrid silica films. Journal of Non-Crystalline Solids, 1997, 209, 51-60.	3.1	32
26	Sol-gel precursors: a spectroscopic study of transesterification reactions between silicon and titanium alkoxides. Journal of Non-Crystalline Solids, 1994, 167, 29-36.	3.1	31
27	Hydrophobic siloxane paper coatings: the effect of increasing methyl substitution. Journal of Sol-Gel Science and Technology, 2012, 62, 441-452.	2.4	30
28	Title is missing!. Magyar Apróvad Közlemények, 2001, 66, 37-46.	1.4	29
29	Processing Influence on Molecular Assembling and Structural Conformations in Silk Fibroin: Elucidation by Solid-State NMR. ACS Biomaterials Science and Engineering, 2016, 2, 758-767.	5.2	29
30	Effect of functionalized graphene oxide concentration on the corrosion resistance properties provided by cataphoretic acrylic coatings. Materials Chemistry and Physics, 2020, 239, 121984.	4.0	29
31	New Monofunctional POSS and Its Utilization as Dewetting Additive in Methacrylate Based Free-Standing Films. Chemistry of Materials, 2009, 21, 4163-4171.	6.7	27
32	Sol-gel synthesis of polymer-YSZ hybrid materials for SOFC technology. Journal of the European Ceramic Society, 2004, 24, 1371-1374.	5.7	26
33	Hybrid SiO ₂ @POSS nanofiller: a promising reinforcing system for rubber nanocomposites. Materials Chemistry Frontiers, 2017, 1, 1441-1452.	5.9	26
34	Electrostatic bellow muscle actuators and energy harvesters that stack up. Science Robotics, 2021, 6, .	17.6	26
35	Silk Fibroin Porous Scaffolds Loaded with a Slow-Releasing Hydrogen Sulfide Agent (GYY4137) for Applications of Tissue Engineering. ACS Biomaterials Science and Engineering, 2018, 4, 2956-2966.	5.2	25
36	The development of sol–gel derived TiO ₂ thin films and corresponding memristor architectures. RSC Advances, 2017, 7, 1654-1663.	3.6	24

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37	Synthesis and characterization of the first transparent silicon oxycarbide aerogel obtained through H2decarbonization. Journal of Materials Chemistry A, 2015, 3, 24405-24413.	10.3	23
38	Versatile and Scalable Strategy To Grow Sol–Gel Derived 2H-MoS ₂ Thin Films with Superior Electronic Properties: A Memristive Case. ACS Applied Materials & Interfaces, 2018, 10, 34392-34400.	8.0	22
39	Unsupported SiO2-based organic–inorganic membranes. Journal of Materials Chemistry, 1997, 7, 919-922.	6.7	21
40	Hybrid organic–inorganic materials using zirconium based NBBs and vinyl trimethoxysilane: Effect of pre-hydrolysis of silane. Polymer, 2010, 51, 832-841.	3.8	21
41	Properties of anion exchange membrane based on polyamine: Effect of functionalized silica particles prepared by sol–gel method. Solid State Ionics, 2018, 322, 85-92.	2.7	21
42	Unveiling the hybrid interface in polymer nanocomposites enclosing silsesquioxanes with tunable molecular structure: Spectroscopic, thermal and mechanical properties. Journal of Colloid and Interface Science, 2018, 512, 609-617.	9.4	20
43	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. Coatings, 2020, 10, 602.	2.6	18
44	A Bio-inspired Multifunctionalized Silk Fibroin. ACS Biomaterials Science and Engineering, 2021, 7, 507-516.	5.2	18
45	Structural evolution during pyrolysis of sol-gel derived hybrid materials. Journal of Sol-Gel Science and Technology, 1994, 2, 139-142.	2.4	17
46	Synthesis of Ni metal particles by reaction between bis(cyclooctadiene)nickel(0) and sol–gel SiO2 modified with Si–H groups Journal of Materials Chemistry, 2001, 11, 678-683.	6.7	17
47	Chemical modification and structural rearrangements of polyketoneâ€based polymer membrane. Journal of Applied Polymer Science, 2017, 134, 45485.	2.6	17
48	Design of a Zn Single-Site Curing Activator for a More Sustainable Sulfur Cross-Link Formation in Rubber. Industrial & Engineering Chemistry Research, 2021, 60, 10180-10192.	3.7	17
49	Sol-gel synthesis and characterization of undoped and Al-doped ZnO thin films for memristive application. AlP Advances, 2016, 6, .	1.3	16
50	Effect of the Organic Functional Group on the Grafting Ability of Trialkoxysilanes onto Graphene Oxide: A Combined NMR, XRD, and ESR Study. Materials, 2019, 12, 3828.	2.9	16
51	Pyrolysis study of sol-gel derived zirconia by TG-GC-MS. Journal of Thermal Analysis and Calorimetry, 2005, 81, 407-415.	3.6	15
52	Si and Zr based NBBS for hybrid O/I macromolecular materials starting by preformed zirconium oxo-clusters. Journal of Sol-Gel Science and Technology, 2008, 48, 168-171.	2.4	15
53	Influence of synthesis conditions on the cross-link architecture of silsesquioxanes prepared by in situ water production route. Journal of Sol-Gel Science and Technology, 2011, 60, 236-245.	2.4	15
54	A novel non-aqueous sol–gel route for the in situ synthesis of high loaded silica–rubber nanocomposites. Soft Matter, 2014, 10, 2234-2244.	2.7	15

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55	Morphologic, structural, and optical characterization of sol-gel derived TiO2 thin films for memristive devices. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 192-196.	0.8	15
56	Tailoring the Dielectric and Mechanical Properties of Polybutadiene Nanocomposites by Using Designed Ladder-like Polysilsesquioxanes. ACS Applied Nano Materials, 2018, 1, 3817-3828.	5.0	15
57	Features and application of coupled cold plasma and photocatalysis processes for decontamination of water. Chemosphere, 2021, 262, 128336.	8.2	15
58	Phase separation in gel-derived materials, separation and crystallization of SnO ₂ within an amorphous SiO ₂ matrix. Journal of Materials Research, 1992, 7, 435-443.	2.6	14
59	Corrosion protection properties of functionalised graphene–acrylate coatings produced via cataphoretic deposition. Progress in Organic Coatings, 2019, 136, 105261.	3.9	14
60	Graphene-Based Reinforcing Filler for Double-Layer Acrylic Coatings. Materials, 2020, 13, 4499.	2.9	14
61	Structural Investigation of Sol-Gel-Derived Hybrid Siloxane-Oxide Materials Using 29Si MAS-NMR Spectroscopy. Materials Research Society Symposia Proceedings, 1992, 286, 289.	0.1	13
62	Hybrid organic/inorganic materials for photonic applications via assembling of nanostructured molecular units. Journal of Sol-Gel Science and Technology, 2008, 48, 217-223.	2.4	13
63	A low-cost method for producing high-performance nanocomposite thin-films made from silica and CNTs on cellulose substrates. Journal of Materials Science, 2008, 43, 4862-4869.	3.7	13
64	Adsorptive properties of sol–gel derived hybrid organic/inorganic coatings. Materials Chemistry and Physics, 2014, 147, 954-962.	4.0	13
65	Mechanism and Kinetics of Oligosilsesquioxane Growth in the In Situ Water Production Sol–Gel Route: Dependence on Water Availability. European Journal of Inorganic Chemistry, 2016, 2016, 2166-2174.	2.0	13
66	Towards low voltage resistive switch in sol-gel derived TiO2/Ta2O5 stack thin films. Materials and Design, 2016, 105, 359-365.	7.0	13
67	Filler-matrix interaction in sodium montmorillonite-organosilica nanocomposite coatings for corrosion protection. Applied Clay Science, 2017, 150, 81-88.	5.2	13
68	Hybrid Coatings Enriched with Tetraethoxysilane for Corrosion Mitigation of Hot-Dip Galvanized Steel in Chloride Contaminated Simulated Concrete Pore Solutions. Materials, 2017, 10, 306.	2.9	13
69	SiO2/Ladder-Like Polysilsesquioxanes Nanocomposite Coatings: Playing with the Hybrid Interface for Tuning Thermal Properties and Wettability. Coatings, 2020, 10, 913.	2.6	13
70	Flash sintering of Mg-doped tricalcium phosphate (TCP) nanopowders. Journal of the European Ceramic Society, 2019, 39, 3883-3892.	5.7	12
71	Pyrolysis pathway of sol–gel derived organic/inorganic hybrid nanocomposites. Journal of Non-Crystalline Solids, 2003, 322, 22-28	3.1	11
72	Sol-gel derived oriented multilayer ZnO thin films with memristive response. Thin Solid Films, 2016, 615, 427-436.	1.8	11

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73	Subfemtosecond dynamics of structural protons in silica xerogels. Physical Review B, 2008, 77, .	3.2	10
74	Study of the effect of organically functionalized silica nanoparticles on the properties of UV curable acrylic coatings. Progress in Organic Coatings, 2011, 72, 44-51.	3.9	10
75	Structureâ€related behavior of hybrid organic–inorganic materials prepared in different synthesis conditions from Zrâ€based NBBs and 3â€methacryloxypropyl trimethoxysilane. Journal of Applied Polymer Science, 2012, 125, 1713-1723.	2.6	10
76	Hydrogenation performance of Pt-Ag catalysts highly dispersed on silica gel: occurrence of Pt-Ag alloy particles and role of their solid state structure in catalytic activity. Journal of Molecular Catalysis, 1989, 53, L13-L16.	1.2	9
77	Structural evolution of nanoporous silica thin films studied by positron annihilation spectroscopy and Fourier transform infrared spectroscopy. Journal Physics D: Applied Physics, 2007, 40, 5266-5274.	2.8	9
78	Growth of nanotubes in sol-gel-derived V ₂ O ₅ powders and films prepared under acidic conditions. Journal of Materials Research, 2009, 24, 475-481.	2.6	9
79	Super-adsorbent polyacrylate under swelling in water for passive solar control of building envelope. SN Applied Sciences, 2020, 2, 1.	2.9	9
80	Effect of Hydrothermal Treatment and Doping on the Microstructural Features of Sol-Gel Derived BaTiO3 Nanoparticles. Materials, 2021, 14, 4345.	2.9	9
81	TiO2 containing hybrid nanocomposites with active–passive oxygen scavenging capability. Chemical Engineering Journal, 2021, 417, 129135.	12.7	9
82	Electron and Energy Transfer Mechanisms: The Double Nature of TiO2 Heterogeneous Photocatalysis. Topics in Current Chemistry, 2022, 380, 2.	5.8	9
83	Sol-Gel Derived Polysiloxane-Oxide Hybrid Materials: Extent of Phase Interaction. Journal of Sol-Gel Science and Technology, 2003, 26, 285-290.	2.4	8
84	Nanometric oxides from molecular precursors in the presence of starch: Coatings of glass with these oxides in silica sols. Journal of Materials Research, 2006, 21, 1726-1737.	2.6	8
85	Influence of Sol–Gel Conditions on the Growth of Thiol-Functionalized Silsesquioxanes Prepared by <l>ln Situ</l> Water Production. Journal of Nanoscience and Nanotechnology, 2016, 16, 3030-3038.	0.9	8
07	Carbon monoxide insertion into trans-Pt(η1-C3H5)-(phosphine2)Cl complexes in benzene. Crystal		

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91	Silica hairy nanoparticles: a promising material for self-assembling processes. Soft Matter, 2021, 17, 9434-9446.	2.7	7
92	Aging effect on the mechanical properties of hybrid gels. Journal of Sol-Gel Science and Technology, 1994, 2, 143-146.	2.4	6
93	Sol—Gel Synthesis of Heterometallic Oxopolymers. ACS Symposium Series, 1994, , 134-148.	0.5	6
94	Siloxane-Based Nanobuilding Blocks by Reaction Between Silanediol and Trifunctional Silicon Alkoxides. Journal of Sol-Gel Science and Technology, 2004, 32, 57-61.	2.4	6
95	Fabrication and characterization of optical planar waveguides activated by erbium ions for 1.5-μm applications. , 2004, 5451, 574.		6
96	Thin Films of Plasma-Polymerized n-Hexane and ZnO Nanoparticles Co-Deposited via Atmospheric Pressure Plasma Jet. Coatings, 2021, 11, 167.	2.6	6
97	Electrostatic actuator for tactile display based on hydraulically coupled dielectric fluids and soft structures. , 2019, , .		6
98	Hydroxylated Cyclophosphazene/Silica Hybrid Materials: Synthesis and Characterization. Journal of Inorganic and Organometallic Polymers, 2002, 12, 59-78.	1.5	5
99	YSZ freestanding films from hybrid polymer–oxide composites by the sol–gel process: Influence of polymer features on ceramic microstructure. Journal of the European Ceramic Society, 2005, 25, 2647-2650.	5.7	5
100	Effect Of SnO2 on the Mechanical Properties of SiO2/SnO2 Gel-Derived Composites. Materials Research Society Symposia Proceedings, 1990, 180, 351.	0.1	4
101	Structure-property behavior during aging of sol-gel-derived silica modified with Si–H and Si–CH3 groups. Journal of Materials Research, 1999, 14, 2100-2106.	2.6	4
102	Modification and Characterization of Si-Based Nanobuilding Blocks Precursors for Hybrid Materials. Materials Research Society Symposia Proceedings, 2004, 847, 180.	0.1	4
103	Characterization of Nano-structured UV Cured Acrylic Coatings. ECS Transactions, 2010, 24, 51-66.	0.5	4
104	Silicification of wood adopted for barrel production using pure silicon alkoxides in gas phase to avoid microbial colonisation. Food Microbiology, 2015, 45, 135-146.	4.2	4
105	Smart and Covalently Crossâ€Linked: Hybrid Shape Memory Materials Reinforced through Covalent Bonds by Zirconium Oxoclusters. ChemPlusChem, 2016, 81, 338-350.	2.8	4
106	Hydrophobic Coatings by Thiol-Ene Click Functionalization of Silsesquioxanes with Tunable Architecture. Materials, 2017, 10, 913.	2.9	4
107	Architecture of Silsesquioxanes. , 2018, , 3119-3151.		4
108	A novel and selective silk fibroin fragmentation method. Soft Matter, 2021, 17, 6863-6872.	2.7	4

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109	Surface Chemical Structure of SÃo2-TiO ₂ Sol-Gel Powders. Materials Research Society Symposia Proceedings, 1994, 346, 421.	0.1	2
110	Hybrid organic–inorganic films by assembling of Si–Zr-based nanobuilding blocks. Journal of the European Ceramic Society, 2005, 25, 2051-2054.	5.7	2
111	Investigation of high-energy inelastic neutron scattering from liquid water confined in silica xerogel. Physica B: Condensed Matter, 2006, 385-386, 1095-1097.	2.7	2
112	Photopolymerization of hybrid organic/inorganic materials based on nanostructured units for photonic applications. , 2007, 6645, 397.		2
113	Optimisation and memristive response of sol-gel derived TiO <inf>2</inf> thin films. , 2015, , .		2
114	Structural characterization of sol-gel ZnO thin films on different substrates for memristive application. , 2015, , .		2
115	Functionalization of TiO2 sol-gel derived films for cell confinement. Colloids and Surfaces B: Biointerfaces, 2021, 204, 111787.	5.0	2
116	Photoluminescence Spectroscopy of Er3+/Yb3+ Co-Activated Silica-Alumina Monolithic Xerogels. Journal of Sol-Gel Science and Technology, 2004, 32, 267-271.	2.4	1
117	Photonic devices based on patterning by two photon induced polymerization techniques. Proceedings of SPIE, 2008, , .	0.8	1
118	Alcoholic Fermentation with Saccharomyces cerevisiae Trapped in SiO2 Films. , 1992, , 151-157.		1
119	Comparison of open volumes in silica based thin films produced by different precursors. Journal of Physics: Conference Series, 2011, 265, 012024.	0.4	Ο
120	Architecture of Silsesquioxanes. , 2016, , 1-34.		0
121	Merging the Sol–Gel Technique with the Pulsed Microplasma Cluster Source Deposition to Improve Control over the Memristive Response of TiO2 Thin Films. Coatings, 2021, 11, 348.	2.6	Ο
122	Optical and radioluminescence properties of ZnO:Zn as a function of reduction degree and treatment temperature. Journal of Applied Physics, 2021, 130, 085104.	2.5	0
123	Synthesis and characterization of Nd3+-Yb3+ doped hydroxyapatite nanoparticles. Optical Materials: X, 2021, 12, 100118.	0.8	0
124	Nanopowders of metallic oxides prepared by the hydrolytic route with starch stabilization and biological abetment. Journal of Nanoscience and Nanotechnology, 2006, 6, 254-7.	0.9	0