Plinio C Innocenzi

List of Publications by Year
in descending order

237	9,014	41323	54882
papers	citations	49 h-index	84 g-index

247	247	247	9168
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Infrared spectroscopy of solâ€“gel derived silica-based films: a spectra-microstructure overview. Journal of Non-Crystalline Solids, 2003, 316, 309-319.	1.5	830
2	Mesoporous thin films: properties and applications. Chemical Society Reviews, 2013, 42, 4198.	18.7	267
3	Hydrophobic, Antireflective, Self-Cleaning, and Antifogging Solâˆ’Gel Coatings: An Example of Multifunctional Nanostructured Materials for Photovoltaic Cells. Chemistry of Materials, 2010, 22, 4406-4413.	3.2	258
4	Organicâ€“inorganic hybrid materials for non-linear optics. Journal of Materials Chemistry, 2005, 15, 3821.	6.7	228
5	Mesoporous Hybrid Thin Films: The Physics and Chemistry Beneath. Chemistry - A European Journal, 2006, 12, 4478-4494.	1.7	227
6	Hybrid materials for optics and photonics. Chemical Society Reviews, 2011, 40, 886.	18.7	210
7	Orderâˆ’Disorder Transitions and Evolution of Silica Structure in Self-Assembled Mesostructured Silica Films Studied through FTIR Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 4711-4717.	1.2	196
8	Carbon-based antiviral nanomaterials: graphene, C-dots, and fullerenes. A perspective. Chemical Science, 2020, 11, 6606-6622.	3.7	170
9	Fluorescence Properties of the Ru(bpy)32+Complex Incorporated in Solâˆ’Gel-Derived Silica Coating Films. Journal of Physical Chemistry B, 1997, 101, 2285-2291.	1.2	167
10	New Synthetic Route to (3-Glycidoxypropyl)trimethoxysilane-Based Hybrid Organicâˆ’Inorganic Materials. Chemistry of Materials, 1999, 11, 1672-1679.	3.2	163
11	Structure and properties of sol-gel coatings from methyltriethoxysilane and tetraethoxysilane. Journal of Sol-Gel Science and Technology, 1994, 3, 47-55.	1.1	156
12	Fullerene-Based Organicâˆ’Inorganic Nanocomposites and Their Applications. Chemistry of Materials, 2001, 13, 3126-3139.	3.2	141
13	Hierarchical Mesoporous Films: From Self-Assembly to Porosity with Different Length Scales. Chemistry of Materials, 2011, 23, 2501-2509.	3.2	135
14	Silica Orthorhombic Mesostructured Films with Low Refractive Index and High Thermal Stability. Journal of Physical Chemistry B, 2004, 108, 10942-10948.	1.2	114
15	Hybrid Organic-Inorganic Sol-Gel Materials Based on Epoxy-Amine Systems. Journal of Sol-Gel Science and Technology, 2005, 35, 225-235.	1.1	114
16	Orderâˆ’Disorder in Self-Assembled Mesostructured Silica Films: A Concepts Review. Chemistry of Materials, 2009, 21, 2555-2564.	3.2	113
17	Competitive Polymerization between Organic and Inorganic Networks in Hybrid Materials. Chemistry of Materials, 2000, 12, 3726-3732.	3.2	112
18	Microstructural and optical properties of sol-gel silica-titania waveguides. Journal of Non-Crystalline Solids, 1997, 220, 202-209.	1.5	109

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19	Carbon Dots from Citric Acid and its Intermediates Formed by Thermal Decomposition. Chemistry - A European Journal, 2019, 25, 11963-11974.	1.7	99
20	Solid-State NMR Characterization of the Surfactantâ^'Silica Interface in Templated Silicas:Â Acidic versus Basic Conditions. Chemistry of Materials, 2007, 19, 1343-1354.	3.2	98
21	Optical and surface properties of inorganic and hybrid organicâ€“inorganic silicaâ€“titania solâ€“gel planar waveguides. Journal of Non-Crystalline Solids, 1999, 259, 182-190.	1.5	87
22	Patterning Techniques for Mesostructured Films. Chemistry of Materials, 2008, 20, 607-614.	3.2	87
23	C60 derivatives embedded in sol-gel silica films. Advanced Materials, 1995, 7, 404-406.	11.1	86
24	Evaporation of Ethanol and Ethanolâ^'Water Mixtures Studied by Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry A, 2008, 112, 6512-6516.	1.1	81
25	Humidity sensors based on mesoporous silica thin films synthesised by block copolymers. Journal of the European Ceramic Society, 2004, 24, 1969-1972.	2.8	80
26	Dimer-to-monomer transformation of rhodamine 6G in solâ€”gel silica films. Journal of Non-Crystalline Solids, 1996, 201, 26-36.	1.5	77
27	Electrical and structural characterisation of mesoporous silica thin films as humidity sensors. Sensors and Actuators B: Chemical, 2001, 76, 299-303.	4.0	71
28	One-Pot Route to Produce Hierarchically Porous Titania Thin Films by Controlled Self-Assembly, Swelling, and Phase Separation. Chemistry of Materials, 2009, 21, 2763-2769.	3.2	71
29	Highly Ordered â€œDefect-Freeâ€•Self-Assembled Hybrid Films with a Tetragonal Mesostructure. Journal of the American Chemical Society, 2005, 127, 3838-3846.	6.6	69
30	Design of Carbon Dots Photoluminescence through Organo-Functional Silane Grafting for Solid-State Emitting Devices. Scientific Reports, 2017, 7, 5469.	1.6	68
31	Mesoporous silica thin films for alcohol sensors. Journal of the European Ceramic Society, 2001, 21, 1985-1988.	2.8	67
32	Fluorescent carbon dots in solid-state: From nanostructures to functional devices. Progress in Solid State Chemistry, 2021, 62, 100295.	3.9	67
33	Aggregation States of Rhodamine 6G in Mesostructured Silica Films. Journal of Physical Chemistry C, 2008, 112, 16225-16230.	1.5	66
34	Mechanical Properties of 3-Glycidoxypropyltrimethoxysilane Based Hybrid Organic-Inorganic Materials. Journal of Sol-Gel Science and Technology, 2001, 20, 293-301.	1.1	65
35	Fabrication of Advanced Functional Devices Combining Soft Chemistry with Xâ€ray Lithography in One Step. Advanced Materials, 2009, 21, 4932-4936.	11.1	63
36	Sol-gel reactions of 3-glycidoxypropyltrimethoxysilane in a highly basic aqueous solution. Dalton Transactions, 2009, , 9146.	1.6	63

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37	Highly durable graphene-mediated surface enhanced Raman scattering (G-SERS) nanocomposites for molecular detection. Applied Surface Science, 2018, 450, 451-460.	3.1	63
38	Graphene and carbon nanodots in mesoporous materials: an interactive platform for functional applications. Nanoscale, 2015, 7, 12759-12772.	2.8	60
39	Incorporation of Zwitterionic Pushâ^'Pull Chromophores into Hybrid Organicâ^'Inorganic Matrixes. Chemistry of Materials, 2002, 14, 3758-3766.	3.2	59
40	Hierarchical Porous Silica Films with Ultralow Refractive Index. Chemistry of Materials, 2009, 21, 2055-2061.	3.2	57
41	Optical limiting and non linear optical properties of fullerene derivatives embedded in hybrid solâ€"gel glasses. Carbon, 2000, 38, 1653-1662.	5.4	56
42	A Novel Synthesis of Solâ^'Gel Hybrid Materials by a Nonhydrolytic/Hydrolytic Reaction of (3-Glycidoxypropyl)trimethoxysilane with TiCl4. Chemistry of Materials, 2001, 13, 3635-3643.	3.2	56
43	Energy Transfer Induced by Carbon Quantum Dots in Porous Zinc Oxide Nanocomposite Films. Journal of Physical Chemistry C, 2015, 119, 2837-2843.	1.5	55
44	A comparative FTIR study of thermal and photo-polymerization processes in hybrid solâ€"gel films. Journal of Non-Crystalline Solids, 2004, 333, 137-142.	1.5	54
45	Time-Resolved Simultaneous Detection of Structural and Chemical Changes during Self-Assembly of Mesostructured Films. Journal of Physical Chemistry C, 2007, 111, 5345-5350.	1.5	54
46	Graphene Oxide/Iron Oxide Nanocomposites for Water Remediation. ACS Applied Nano Materials, 2018, 1, 6724-6732.	2.4	53
47	PbS-Doped Mesostructured Silica Films with High Optical Nonlinearity. Chemistry of Materials, 2005, 17, 4965-4970.	3.2	52
48	3-(Glycidoxypropyl)-trimethoxysilaneâ€"TiO2 hybrid organicâ€"inorganic materials for optical limiting. Journal of Non-Crystalline Solids, 2000, 265, 68-74.	1.5	51
49	Top-down patterning of Zeolitic Imidazolate Framework composite thin films by deep X-ray lithography. Chemical Communications, 2012, 48, 7483.	2.2	51
50	Integrating sol-gel and carbon dots chemistry for the fabrication of fluorescent hybrid organic-inorganic films. Scientific Reports, 2020, 10, 4770.	1.6	51
51	Hydroxylated boron nitride materials: from structures to functional applications. Journal of Materials Science, 2021, 56, 4053-4079.	1.7	50
52	Time-Resolved Infrared Spectroscopy as an In Situ Tool To Study the Kinetics During Self-Assembly of Mesostructured Films. Journal of Physical Chemistry B, 2006, 110, 10837-10841.	1.2	49
53	Zirconia-ormosil films doped with PbS quantum dots. Journal of Non-Crystalline Solids, 1999, 244, 55-62.	1.5	48
54	Controlling the Thermal Polymerization Process of Hybrid Organicâ^'Inorganic Films Synthesized from 3-Methacryloxypropyltrimethoxysilane and 3-Aminopropyltriethoxysilane. Chemistry of Materials, 2003, 15, 4790-4797.	3.2	48

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55	Structural Control in Germania Hybrid Organicâ˜Inorganic Materials. Chemistry of Materials, 2005, 17, 3172-3180.	3.2	48
56	Mesostructured self-assembled titania films for photovoltaic applications. Microporous and Mesoporous Materials, 2006, 88, 304-311.	2.2	48
57	Evaporation-Induced Crystallization of Pluronic F127 Studied in Situ by Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry A, 2010, 114, 304-308.	1.1	48
58	Photoinduced Formation of Wrinkled Microstructures with Longâ€Range Order in Thin Oxide Films. Advanced Materials, 2007, 19, 4343-4346.	11.1	45
59	Fabrication of Mesoporous Functionalized Arrays by Integrating Deep Xâ€Ray Lithography with Dipâ€Pen Writing. Advanced Materials, 2008, 20, 1864-1869.	11.1	45
60	Nanocomposite mesoporous ordered films for lab-on-chip intrinsic surface enhanced Raman scattering detection. Nanoscale, 2011, 3, 3760.	2.8	45
61	Relative humidity and alcohol sensors based on mesoporous silica thin films synthesised from block copolymers. Sensors and Actuators B: Chemical, 2003, 95, 107-110.	4.0	43
62	Microstructural characterization of gold-doped silica-titania sol-gel films. Thin Solid Films, 1996, 279, 23-28.	0.8	41
63	Ceria nanoparticles for the treatment of Parkinson-like diseases induced by chronic manganese intoxication. RSC Advances, 2015, 5, 20432-20439.	1.7	38
64	Citric Acid Derived Carbon Dots, the Challenge of Understanding the Synthesis-Structure Relationship. Journal of Carbon Research, 2021, 7, 2.	1.4	38
65	Photocurable glycidoxypropyltrimethoxysilane based sol-gel hybrid materials. Progress in Solid State Chemistry, 2006, 34, 223-229.	3.9	37
66	Thermal Stability of Lysozyme Langmuirâ˜Schaefer Films by FTIR Spectroscopy. Langmuir, 2007, 23, 1147-1151.	1.6	36
67	Crystallization in Hybrid Organicâ˜Inorganic Materials Induced by Self-Organization in Basic Conditions. Chemistry of Materials, 2007, 19, 1946-1953.	3.2	36
68	Direct nano-in-micropatterning of TiO2 thin layers and TiO2/Pt nanoelectrode arrays by deep X-ray lithography. Journal of Materials Chemistry, 2011, 21, 3597.	6.7	36
69	FTIR nanobiosensors for Escherichia coli detection. Beilstein Journal of Nanotechnology, 2012, 3, 485-492.	1.5	36
70	Materials for Photonic Applications From Sol-Gel*. , 2000, 4, 151-165.		35
71	Solâ˜Gel Synthesis of Î²-Al2TiO5Thin Films at Low Temperature. Chemistry of Materials, 2000, 12, 517-524.	3.2	35
72	Thermal-induced phase transitions in self-assembled mesostructured films studied by small-angle X-ray scattering. Journal of Synchrotron Radiation, 2005, 12, 734-738.	1.0	35

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73	A MOF-based carrier forin situdopamine delivery. RSC Advances, 2018, 8, 25664-25672.	1.7	35
74	Writing Self-Assembled Mesostructured Films with In situ Formation of Gold Nanoparticles. Chemistry of Materials, 2010, 22, 2132-2137.	3.2	34
75	Selfâ€Organized Nanocrystalline Organosilicates in Organicâ€Inorganic Hybrid Films. Advanced Materials, 2009, 21, 1732-1736.	11.1	33
76	Hard X-rays meet soft matter: when bottom-up and top-down get along well. Soft Matter, 2012, 8, 3722.	1.2	33
77	Graphene-mediated surface enhanced Raman scattering in silica mesoporous nanocomposite films. Physical Chemistry Chemical Physics, 2014, 16, 25809-25818.	1.3	32
78	Poled Sol-Gel Materials With Heterocycle Push-Pull Chromophores that Confer Enhanced Second-Order Optical Nonlinearity. Advanced Functional Materials, 2004, 14, 1160-1166.	7.8	31
79	From 2-D to 0-D Boron Nitride Materials, The Next Challenge. Materials, 2019, 12, 3905.	1.3	31
80	2D Boron Nitride Heterostructures: Recent Advances and Future Challenges. Small Structures, 2021, 2, 2100068.	6.9	31
81	Highly ordered self-assembled mesostructured membranes: Porous structure and pore surface coverage. Microporous and Mesoporous Materials, 2007, 103, 113-122.	2.2	30
82	Hafnia sol-gel films synthesized from HfCl4: Changes of structure and properties with the firing temperature. Journal of Sol-Gel Science and Technology, 2007, 42, 89-93.	1.1	30
83	Optical Limiting Devices Based on C60 Derivatives in Sol-Gel Hybrid Organic-Inorganic Materials. Journal of Sol-Gel Science and Technology, 2000, 19, 263-266.	1.1	29
84	Raman microspectroscopy as a non-invasive tool to assess the vitrification-induced changes of ovine oocyte zona pellucida. Cryobiology, 2012, 64, 267-272.	0.3	29
85	Confined growth of iron cobalt nanocrystals in mesoporous silica thin films: FeCoâ€“SiO2 nanocomposites. Microporous and Mesoporous Materials, 2008, 115, 338-344.	2.2	28
86	Solâ€Gel Chemistry for Carbon Dots. Chemical Record, 2018, 18, 1192-1202.	2.9	28
87	Solâ€“Gel Processing of Bi₂Ti₂O₇ and Bi₂Ti₄O₁₁ Films with Photocatalytic Activity. Journal of the American Ceramic Society, 2010, 93, 2897-2902.	1.9	27
88	Exfoliated Graphene into Highly Ordered Mesoporous Titania Films: Highly Performing Nanocomposites from Integrated Processing. ACS Applied Materials & Interfaces, 2014, 6, 795-802.	4.0	27
89	Solâ€“gel chemistry for grapheneâ€“silica nanocomposite films. New Journal of Chemistry, 2014, 38, 3777-3782.	1.4	27
90	Kinetics of polycondensation reactions during self-assembly of mesostructured films studied by in situ infrared spectroscopy. Chemical Communications, 2005, , 2384.	2.2	26

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91	Densification of solâ€“gel silica thin films induced by hard X-rays generated by synchrotron radiation. Journal of Synchrotron Radiation, 2011, 18, 280-286.	1.0	26
92	Photodegradation of rhodamine 6G dimers in silica solâ€“gel films. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 271, 93-98.	2.0	26
93	Preparation of coating films doped with gold metal particles from methyltriethoxysilane-tetraethoxysilane solutions. Journal of Sol-Gel Science and Technology, 1994, 1, 305-318.	1.1	25
94	Highly Ordered Self-Assembled Mesostructured Hafnia Thin Films:Â An Example of Rewritable Mesostructure. Chemistry of Materials, 2006, 18, 4553-4560.	3.2	25
95	Solâ€“gel chemistry: from self-assembly to complex materials. Journal of Sol-Gel Science and Technology, 2011, 60, 226-235.	1.1	25
96	Molecularly imprinted La-doped mesoporous titania films with hydrolytic properties toward organophosphate pesticides. New Journal of Chemistry, 2013, 37, 2995.	1.4	25
97	Cerium dioxide nanoparticles did not alter the functional and morphologic characteristics of ram sperm during short-term exposure. Theriogenology, 2016, 85, 1274-1281.e3.	0.9	25
98	Sensoristic Applications of Self-assembled Mesostructured Silica Films. Sensor Letters, 2003, 1, 64-70.	0.4	25
99	Fullerenes in Sol-Gel Materials. Journal of Sol-Gel Science and Technology, 2001, 22, 189-204.	1.1	24
100	One-pot self-assembly of mesostructured silica films and membranes functionalised with fullerene derivativesElectronic supplementary information (ESI) available: selected analytical data of 2 and 3. See http://www.rsc.org/suppdata/jm/b4/b401916d/. Journal of Materials Chemistry, 2004, 14, 1838.	6.7	24
101	Electrical responses of silica mesostructured films to changes in environmental humidity and processing conditions. Journal of Non-Crystalline Solids, 2005, 351, 1980-1986.	1.5	24
102	Boron oxynitride two-colour fluorescent dots and their incorporation in a hybrid organic-inorganic film. Journal of Colloid and Interface Science, 2020, 560, 398-406.	5.0	24
103	Ordered Mesostructured Silica Films: Effect of Pore Surface on its Sensing Properties. Journal of Sol-Gel Science and Technology, 2004, 32, 107-110.	1.1	23
104	Design of hybrid organicâ€“inorganic materials through their structure control: The case of epoxy bearing alkoxides. Journal of Non-Crystalline Solids, 2008, 354, 1615-1626.	1.5	23
105	Shaping Mesoporous Films Using Dewetting on X-ray Pre-patterned Hydrophilic/Hydrophobic Layers and Pinning Effects at the Pattern Edge. Langmuir, 2011, 27, 3898-3905.	1.6	23
106	Basic Catalyzed Synthesis of Hybrid Sol-Gel Materials Based on 3-Glycidoxypropyltrimethoxysilane. Journal of Sol-Gel Science and Technology, 2003, 26, 303-306.	1.1	22
107	Correlative Analysis of the Crystallization of Solâ^'Gel Dense and Mesoporous Anatase Titania Films. Journal of Physical Chemistry C, 2010, 114, 22385-22391.	1.5	22
108	Chemical Tailoring of Hybrid Solâ^'Gel Thick Coatings As Hosting Matrix for Functional Patterned Microstructures. ACS Applied Materials & Interfaces, 2011, 3, 245-251.	4.0	22

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109	Combining Top-Down and Bottom-Up Routes for Fabrication of Mesoporous Titania Films Containing Ceria Nanoparticles for Free Radical Scavenging. ACS Applied Materials & Interfaces, 2013, 5, 3168-3175.	4.0	22
110	Enhanced Photocatalytic Activity in Low-Temperature Processed Titania Mesoporous Films. Journal of Physical Chemistry C, 2014, 118, 12000-12009.	1.5	22
111	Methyltriethoxysilane-derived sol-gel coatings doped with silver metal particles. Journal of Sol-Gel Science and Technology, 1994, 3, 229-233.	1.1	21
112	Mesoporous Aluminophosphate Thin Films with Cubic Pore Arrangement. Langmuir, 2008, 24, 6220-6225.	1.6	21
113	Self-Assembly of Shape Controlled Hierarchical Porous Thin Films: Mesopores and Nanoboxes. Chemistry of Materials, 2009, 21, 4846-4850.	3.2	21
114	Innovative Composite Films of Chitosan, Methylcellulose, and Nanoparticles. Journal of Food Science, 2011, 76, N54-60.	1.5	21
115	Smart tailoring of the surface chemistry in GPTMS hybrid organicâ€“inorganic films. New Journal of Chemistry, 2014, 38, 1635-1640.	1.4	21
116	Photoâ€Fabrication of Titania Hybrid Films with Tunable Hierarchical Structures and Stimuliâ€Responsive Properties. Advanced Materials, 2010, 22, 3303-3306.	11.1	20
117	Release of Ceria Nanoparticles Grafted on Hybrid Organicâ€“Inorganic Films for Biomedical Application. ACS Applied Materials & Interfaces, 2012, 4, 3916-3922.	4.0	20
118	Cerium oxide nanoparticles (CeO2 NPs) improve the developmental competence of in vitro-matured prepubertal ovine oocytes. Reproduction, Fertility and Development, 2017, 29, 1046.	0.1	20
119	Modulating the Optical Properties of Citrazinic Acid through the Monomer-to-Dimer Transformation. Journal of Physical Chemistry A, 2020, 124, 197-203.	1.1	20
120	Anomalous Optical Properties of Citrazinic Acid under Extreme pH Conditions. ACS Omega, 2020, 5, 10958-10964.	1.6	20
121	Deep Xâ€ray Lithography for Direct Patterning of PECVD Films. Plasma Processes and Polymers, 2010, 7, 459-465.	1.6	19
122	Mesoporous materials as platforms for surface-enhanced Raman scattering. TrAC - Trends in Analytical Chemistry, 2019, 114, 233-241.	5.8	19
123	Understanding solâ€“gel transition through a picture. A short tutorial. Journal of Sol-Gel Science and Technology, 2020, 94, 544-550.	1.1	19
124	Formation of cerium titanate, CeTi2O6, in solâ€“gel films studied by XRD and FAR infrared spectroscopy. Journal of Sol-Gel Science and Technology, 2009, 52, 356-361.	1.1	18
125	Water Evaporation Studied by In Situ Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 2745-2749.	1.1	18
126	IR and X-ray time-resolved simultaneous experiments:Âan opportunity to investigate the dynamics of complex systems and non-equilibrium phenomena using third-generation synchrotron radiation sources. Journal of Synchrotron Radiation, 2012, 19, 892-904.	1.0	18

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127	Improving the Selective Efficiency of Graphene-Mediated Enhanced Raman Scattering through Molecular Imprinting. ACS Applied Materials & Interfaces, 2016, 8, 34098-34107.	4.0	18
128	Stain Effects Studied by Time-Resolved Infrared Imaging. Analytical Chemistry, 2009, 81, 551-556.	3.2	17
129	Hybrid Organicâ^'Inorganic Mesostructured Membranes: Interfaces and Organization at Different Length Scales. Journal of Physical Chemistry C, 2010, 114, 11730-11740.	1.5	17
130	Controlling the Processing of Mesoporous Titania Films by in Situ FTIR Spectroscopy: Getting Crystalline Micelles into the Mesopores. Journal of Physical Chemistry C, 2010, 114, 10806-10811.	1.5	17
131	Strain-driven self-rolling of hybrid organicâ€“inorganic microrolls: interfaces with self-assembled particles. NPG Asia Materials, 2012, 4, e22-e22.	3.8	17
132	Defect-assisted photoluminescence in hexagonal boron nitride nanosheets. 2D Materials, 2020, 7, 045023.	2.0	17
133	Borosilicate coatings on mild steel prepared from aqueous amine solutions: A comparison with the alkoxide routes. Journal of the European Ceramic Society, 1995, 15, 337-342.	2.8	16
134	Entrapping of Push-Pull Zwitterionic Chromophores in Hybrid Matrices for Photonic Applications. Journal of Sol-Gel Science and Technology, 2003, 26, 967-970.	1.1	16
135	Perspectives in 1H, 14N and 81Br solid-state NMR studies of interfaces in materials textured by self-assembled amphiphiles. Comptes Rendus Chimie, 2010, 13, 431-442.	0.2	16
136	Polypeptide binding to mesostructured titania films. Microporous and Mesoporous Materials, 2011, 142, 1-6.	2.2	16
137	Graphene Oxide-Silver Nanoparticles in Molecularly-Imprinted Hybrid Films Enabling SERS Selective Sensing. Materials, 2018, 11, 1674.	1.3	16
138	Time Resolved IR and X-Ray Simultaneous Spectroscopy: New Opportunities for the Analysis of Fast Chemical-Physical Phenomena in Materials Science. Acta Physica Polonica A, 2009, 115, 489-500.	0.2	16
139	Hybrid organicâ€“inorganic materials containing poled zwitterionic pushâ€“pull chromophores. Journal of the European Ceramic Society, 2004, 24, 1853-1856.	2.8	15
140	In-situ study of solâ€“gel processing by time-resolved infrared spectroscopy. Journal of Sol-Gel Science and Technology, 2008, 48, 253-259.	1.1	15
141	Structural Evolution during Evaporation of a 3-Glycidoxypropyltrimethoxysilane Film Studied in Situ by Time Resolved Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 10438-10444.	1.1	15
142	X-rays to study, induce, and pattern structures in solâ€“gel materials. Journal of Sol-Gel Science and Technology, 2011, 57, 236-244.	1.1	15
143	A high volume and low damage route to hydroxyl functionalization of carbon nanotubes using hard X-ray lithography. Carbon, 2013, 51, 430-434.	5.4	15
144	Introducing Ti-GERS: Raman Scattering Enhancement in Graphene-Mesoporous Titania Films. Journal of Physical Chemistry Letters, 2015, 6, 3149-3154.	2.1	15

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145	Carbon dots in ZnO macroporous films with controlled photoluminescence through defects engineering. RSC Advances, 2016, 6, 55393-55400.	1.7	15
146	Hydrophobic Thin Films from Solâ€“Gel Processing: A Critical Review. Materials, 2021, 14, 6799.	1.3	15
147	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 245-253.	1.1	14
148	An alternative solâ€“gel route for the preparation of thin films in CeO2â€“TiO2 binary system. Thin Solid Films, 2010, 518, 1653-1657.	0.8	14
149	Solâ€toâ€Gel Transition in Fast Evaporating Systems Observed by in Situ Timeâ€Resolved Infrared Spectroscopy. ChemPhysChem, 2015, 16, 1933-1939.	1.0	14
150	Ferrates for water remediation. Reviews in Environmental Science and Biotechnology, 2017, 16, 15-35.	3.9	14
151	Formation of Monoclinic Hafnium Titanate Thin Films Via the Solâ€“Gel Method. Journal of the American Ceramic Society, 2008, 91, 2112-2116.	1.9	13
152	Microfabrication of mesoporous silica encapsulated enzymes using deep X-ray lithography. Journal of Materials Chemistry, 2012, 22, 16191.	6.7	13
153	Nanoparticles in mesoporous films, a happy marriage for materials science. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	13
154	The Sol-to-Gel Transition. SpringerBriefs in Materials, 2019, , .	0.1	13
155	Effective SARS-CoV-2 antiviral activity of hyperbranched polylysine nanopolymers. Nanoscale, 2021, 13, 16465-16476.	2.8	13
156	Poled solâ€“gel materials doped with heterocycle-based pushâ€“pull chromophores with second-order optical non-linearity. Journal of Non-Crystalline Solids, 2004, 345-346, 575-579.	1.5	12
157	Photocurable silica hybrid organicâ€“inorganic films for photonic applications. Journal of Sol-Gel Science and Technology, 2007, 44, 59-64.	1.1	12
158	IKNO, a user facility for coherent terahertz and UV synchrotron radiation. Journal of Synchrotron Radiation, 2008, 15, 655-659.	1.0	12
159	Application of Terahertz Spectroscopy to Time-Dependent Chemical-Physical Phenomena. Journal of Physical Chemistry A, 2009, 113, 9418-9423.	1.1	12
160	Patterning block copolymer thin films by deep X-ray lithography. Soft Matter, 2010, 6, 3172.	1.2	12
161	Nanostructured thin films as surfaceâ€enhanced Raman scattering substrates. Journal of Raman Spectroscopy, 2013, 44, 35-40.	1.2	12
162	Simultaneous Microfabrication and Tuning of the Permselective Properties in Microporous Polymers Using Xâ€ray Lithography. Small, 2013, 9, 2277-2282.	5.2	12

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163	Boron Nitrideâ€“Titania Mesoporous Film Heterostructures. Langmuir, 2021, 37, 5348-5355.	1.6	12
164	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 19, 569-572.	1.1	11
165	Low temperature synthesis of MgxAl2(1âˆ’x)Ti(1+x)O5 films by solâ€“gel processing. Journal of the European Ceramic Society, 2005, 25, 3587-3591.	2.8	11
166	Bottom-up and top-down approach for periodic microstructures on thin oxide films by controlled photo-activated chemical processes. Journal of Sol-Gel Science and Technology, 2008, 48, 182-186.	1.1	11
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