Peer LÃ¶bmann

List of Publications by Year
in descending order

52 papers	1,113 citations	361413 20 h-index	414414 32 g-index
53 all docs	53 docs citations	53 times ranked	1161 citing authors

#	Article	IF	Citations
1	Antireflective coatings prepared by solâ€“gel processing: Principles and applications. Journal of the European Ceramic Society, 2012, 32, 2995-2999.	5.7	92
2	Preparation of CuAlO2 and CuCrO2 thin films by solâ€“gel processing. Thin Solid Films, 2009, 518, 1153-1156.	1.8	77
3	New Rollâ€toâ€Roll Processable PEDOTâ€Based Polymer with Colorless Bleached State for Flexible Electrochromic Devices. Advanced Functional Materials, 2020, 30, 1906254.	14.9	68
4	MgF2 antireflective coatings by solâ€“gel processing: film preparation and thermal densification. Journal of Materials Chemistry, 2012, 22, 18535.	6.7	60
5	Crack formation in TiO2 films prepared by solâ€“gel processing: Quantification and characterization. Thin Solid Films, 2007, 515, 5212-5219.	1.8	57
6	Structural and physical effects of Mg-doping on p-type CuCrO2 and CuAl0.5Cr0.5O2 thin films. Journal of Materials Chemistry, 2010, 20, 6562.	6.7	54
7	Preparation of p-type conducting transparent CuCrO2 and CuAl0.5Cr0.5O2 thin films by solâ€“gel processing. Journal of Sol-Gel Science and Technology, 2009, 52, 113-119.	2.4	51
8	Anti-soiling surfaces for PV applications prepared by sol-gel processing: Comparison of laboratory testing and outdoor exposure. Solar Energy Materials and Solar Cells, 2016, 157, 422-428.	6.2	44
9	Liquid phase deposition of TiO2 on glass: Systematic comparison to films prepared by solâ€“gel processing. Thin Solid Films, 2007, 515, 8072-8077.	1.8	43
10	Densification and Microstructural Evolution of TiO2Films Prepared by Solâˆ’Gel Processing. Chemistry of Materials, 2006, 18, 4478-4485.	6.7	39
11	Anti-soiling effect of porous SiO2 coatings prepared by solâ€“gel processing. Journal of Sol-Gel Science and Technology, 2011, 59, 239-244.	2.4	38
12	Growth mechanism of Nb-doped TiO2 solâ€“gel multilayer films characterized by SEM and focus/defocus TEM. Journal of Sol-Gel Science and Technology, 2010, 53, 148-153.	2.4	33
13	Microstructure of solâ€“gel derived TiO2 thin films characterized by atmospheric ellipsometric porosimetry. Thin Solid Films, 2009, 517, 1596-1600.	1.8	30
14	Largeâ€Area Electrochromic Devices on Flexible Polymer Substrates with High Optical Contrast and Enhanced Cycling Stability. Advanced Materials Technologies, 2021, 6, 2000836.	5.8	30
15	Modified procedure for the solâ€“gel processing of indiumâ€“tin oxide (ITO) films. Journal of Sol-Gel Science and Technology, 2008, 47, 68-73.	2.4	27
16	Avoiding Voltage-Induced Degradation in PET-ITO-Based Flexible Electrochromic Devices. ACS Applied Materials & Interfaces, 2020, 12, 36695-36705.	8.0	26
17	Porous MgF2 antireflective Î»/4 films prepared by solâ€“gel processing: comparison of synthesis approaches. Journal of Sol-Gel Science and Technology, 2015, 76, 82-89.	2.4	24
18	Periodic nanostructures imprinted on high-temperature stable solâ€“gel films by ultraviolet-based nanoimprint lithography for photovoltaic and photonic applications. Thin Solid Films, 2014, 562, 274-281.	1.8	23

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19	Characterization of solâ€“gel thin films by ellipsometric porosimetry. Journal of Sol-Gel Science and Technology, 2017, 84, 2-15.	2.4	23
20	Densification and Crystallization of Lead Titanate Aerogels. Journal of the American Ceramic Society, 1997, 80, 2658-2666.	3.8	20
21	Structural Evolution in Solâ€“Gelâ€Derived Yttrium Aluminum Garnetâ€“Alumina Precursor Fibers. Journal of the American Ceramic Society, 2002, 85, 2827-2833.	3.8	18
22	Soluble Powders as Precursors for TiO2 Thin Films. Journal of Sol-Gel Science and Technology, 2005, 33, 275-282.	2.4	18
23	Sol-Gel Processing of MgF2 Antireflective Coatings. Nanomaterials, 2018, 8, 295.	4.1	18
24	Influence of single layer thickness on the performance of undoped and Mg-doped CuCrO2 thin films by solâ€“gel processing. Journal of Sol-Gel Science and Technology, 2011, 57, 157-163.	2.4	17
25	Antireflective coatings by solâ€“gel processing: commercial products and future perspectives. Journal of Sol-Gel Science and Technology, 2017, 83, 291-295.	2.4	17
26	Hybrid polymer solâ€“gel material for UV-nanoimprint: microstructure and thermal densification. Journal of Sol-Gel Science and Technology, 2013, 66, 73-83.	2.4	15
27	Characterization of stacked solâ€“gel films: Comparison of results derived from scanning electron microscopy, UVâ€“vis spectroscopy and ellipsometric porosimetry. Thin Solid Films, 2012, 520, 1880-1884.	1.8	14
28	Inorganic Thin Films Prepared from Soluble Powders and Their Applications. Journal of Sol-Gel Science and Technology, 2000, 19, 473-477.	2.4	13
29	TiO2 thin films on soda-lime and borosilicate glass prepared by solâ€“gel processing: influence of the substrates. Journal of Sol-Gel Science and Technology, 2011, 58, 400-406.	2.4	13
30	Lead Zirconate-Titanate Films Prepared from Soluble Powders. Journal of Sol-Gel Science and Technology, 1998, 13, 827-831.	2.4	12
31	Solâ€“gel preparation of TiO2 and MgF2 multilayers. Journal of Sol-Gel Science and Technology, 2013, 67, 436-441.	2.4	12
32	Formation, densification and properties of solâ€“gel TiO2 films prepared from triethanolamine-chelated soluble precursor powders. Journal of Sol-Gel Science and Technology, 2008, 45, 251-259.	2.4	10
33	Antireflective Coatings and Optical Filters. , 2013, , 707-724.		9
34	Microstructure and performance of AZO thin films prepared by solâ€“gel processing. Journal of Sol-Gel Science and Technology, 2013, 66, 120-125.	2.4	8
35	Solubility of porous MgF2 films in water: influence of glass substrates. Journal of Sol-Gel Science and Technology, 2017, 82, 40-44.	2.4	8
36	SiO2â€“TiO2 scattering layers prepared by solâ€“gel processing for light management in thin film solar cells. Journal of Sol-Gel Science and Technology, 2015, 74, 585-593.	2.4	6

#	ARTICLE	IF	CITATIONS
37	Adjustable refractive index of titaniaâ€“alumina thin films prepared from soluble precursor powders. Journal of Sol-Gel Science and Technology, 2016, 77, 69-77.	2.4	6
38	Hybrid polymer incorporating BN particles: Thermal, mechanical, and electrical properties. Journal of Sol-Gel Science and Technology, 2017, 83, 489-494.	2.4	6
39	Solâ€“gel derived scattering layers as substrates for thin-film photovoltaic cells. Thin Solid Films, 2014, 564, 201-205.	1.8	5
40	Transparent Conducting Oxides. , 2013, , 655-672.		5
41	Solâ€“gel matrix for YAG:Ce phosphors in pc-LEDs. Journal of Sol-Gel Science and Technology, 2021, 97, 458-465.	2.4	4
42	Electrochromic Polymer Ink Derived from a Sidechainâ€Modified EDOT for Electrochromic Devices with Colorless Bright State. ChemElectroChem, 2021, 8, 726-734.	3.4	4
43	BNâ€"hybrid polymer composites: influence of particle surface functionalization. Journal of Sol-Gel Science and Technology, 2018, 86, 135-140.	2.4	3
44	Transparent conductive organicâ€“inorganic hybrid composites based on Ag nanowires. Journal of Sol-Gel Science and Technology, 2020, 96, 121-129.	2.4	3
45	Atmospheric control of gel-oxide transformation in solâ€“gel derived Al2O3-Y2O3 fibers. Journal of Sol-Gel Science and Technology, 2010, 55, 9-14.	2.4	2
46	MgF2 films prepared from solvothermally treated precursor solutions. Journal of Sol-Gel Science and Technology, 2018, 85, 514-519.	2.4	2
47	Systematic Comparison of Thermal Annealing and Laser Treatment of TiO2 Thin Films Prepared by Sol-Gel Processing. Lasers in Manufacturing and Materials Processing, 2019, 6, 387-397.	2.2	2
48	Thermal Annealing and Laser Treatment of Sol-gel Derived Zirconia Thin Films. Lasers in Manufacturing and Materials Processing, 2020, 7, 234-243.	2.2	2
49	Inorganic-organic hybrid polymers for printing of optical components: from digital light processing to inkjet 3D-printing. Journal of Sol-Gel Science and Technology, 2022, 101, 649-654.	2.4	2
50	Mesoporous TiO2 thin films prepared from hydrothermally treated precursor powder sols. Journal of Sol-Gel Science and Technology, 2018, 87, 292-298.	2.4	0
51	Anti-soiling Effect of Porous SiO2 Coatings. , 2018, , 3253-3269.		0
52	Anti-soiling Effect of Porous SiO2 Coatings. , 2016, , 1-18.		0