

Lisa C Klein

List of Publications by Year in descending order

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126
papers

3,282
citations

147566

31
h-index

174990

52
g-index

137
all docs

137
docs citations

137
times ranked

2578
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in proton conducting sol-gel glasses. Journal of Sol-Gel Science and Technology, 2022, 102, 482-492.	1.1	4
2	Effect of tetraethoxysilane (TEOS) on melting gel behavior. Journal of the American Ceramic Society, 2020, 103, 4140-4149.	1.9	2
3	Applications of melting gels. Journal of Sol-Gel Science and Technology, 2019, 89, 66-77.	1.1	9
4	Gold nanoparticles in melting gels. Journal of Sol-Gel Science and Technology, 2019, 91, 189-197.	1.1	6
5	The monolith challenge. Journal of Sol-Gel Science and Technology, 2019, 90, 2-7.	1.1	0
6	Consolidated Melting Gel Coatings on AZ31 Magnesium Alloy with Excellent Corrosion Resistance in NaCl Solutions: An Interface Study. ACS Applied Materials & Interfaces, 2019, 11, 3493-3505.	4.0	26
7	Sol-Gel Glasses. Springer Handbooks, 2019, , 1333-1354.	0.3	1
8	Focused laser spike (FLaSk) thermocapillary patterning of micro/nanostructures. , 2019, , .		0
9	Silica Gels for Atmospheric Water Harvesting. , 2019, , .		0
10	Obtaining Thickness-Limited Electro spray Deposition for 3D Coating. ACS Applied Materials & Interfaces, 2018, 10, 11175-11188.	4.0	31
11	²⁹ Si NMR and SAXS investigation of the hybrid organic-inorganic glasses obtained by consolidation of the melting gels. Dalton Transactions, 2017, 46, 3729-3741.	1.6	17
12	Phase separation in melting gels. Journal of Commonwealth Law and Legal Education, 2017, 58, 142-149.	0.2	3
13	Corrosion Protection of AISI 304 Stainless Steel with Melting Gel Coatings. Electrochimica Acta, 2016, 202, 325-332.	2.6	42
14	Hybrid Sol-Gel Glasses with Glass Transition Temperatures Below Room Temperature. Journal of the American Ceramic Society, 2015, 98, 3673-3679.	1.9	29
15	Melting Gel Films for Low Temperature Seals. Materials Research Society Symposia Proceedings, 2013, 1547, 81-86.	0.1	1
16	Red, violet and upconversion luminescence of Eu/Sm codoped sol gel SiO ₂ -TiO ₂ . Optical Materials, 2012, 35, 292-296.	1.7	9
17	Dielectric behavior of organically modified siloxane melting gels. Journal of Non-Crystalline Solids, 2012, 358, 3501-3504.	1.5	11
18	Thermal analysis of organically modified siloxane melting gels. Journal of Thermal Analysis and Calorimetry, 2012, 107, 1039-1045.	2.0	34

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19	Sol-Gel Packaging for Electrochemical Devices. , 2012, , 375-392.		2
20	Methyl modified siloxane melting gels for hydrophobic films. Journal of Sol-Gel Science and Technology, 2010, 53, 272-279.	1.1	34
21	Organic-inorganic hybrid melting gels. Journal of Sol-Gel Science and Technology, 2010, 55, 86-93.	1.1	22
22	The journal has survived its teenage years. Journal of Sol-Gel Science and Technology, 2009, 50, 2-2.	1.1	0
23	Phenyl-Substituted Siloxane Hybrid Gels that Soften Below 140°C. Journal of the American Ceramic Society, 2009, 92, 36-40.	1.9	33
24	Sol-Gel Hybrids for Electronic Applications: Hermetic Coatings for Microelectronics and Energy Storage. , 2009, , 429-453.		4
25	Sol-gel synthesis of erbium-doped yttrium silicate glass-ceramics. Journal of Non-Crystalline Solids, 2008, 354, 3567-3571.	1.5	21
26	Organic-inorganic sol-gel thick films for humidity barriers. Journal of Materials Research, 2008, 23, 2084-2090.	1.2	20
27	Sol-Gel Process for Proton Exchange Membranes. Key Engineering Materials, 2008, 391, 159-168.	0.4	8
28	Characterization and optical properties of sol-gel processed PMMA/SiO ₂ hybrid monoliths. Journal of Non-Crystalline Solids, 2007, 353, 2807-2812.	1.5	25
29	Soft-Chemistry Synthesis and Characterization of Bismuth Oxyfluorides and Ammonium Bismuth Fluorides. Journal of the American Ceramic Society, 2006, 89, 645-651.	1.9	22
30	Hygroscopic-oxides/Nafion® hybrid electrolyte for direct methanol fuel cells. Journal of Membrane Science, 2006, 281, 619-625.	4.1	25
31	Preparation of nanoporous silica-zirconia layers by in situ sol-gel method. Materials Science and Technology, 2006, 22, 611-614.	0.8	68
32	Investigation of the Lithiation and Delithiation Conversion Mechanisms of Bismuth Fluoride Nanocomposites. Journal of the Electrochemical Society, 2006, 153, A799.	1.3	76
33	Reversible Conversion Reactions with Lithium in Bismuth Oxyfluoride Nanocomposites. Journal of the Electrochemical Society, 2006, 153, A159.	1.3	76
34	Methods for modifying proton exchange membranes using the sol-gel process. Polymer, 2005, 46, 4504-4509.	1.8	43
35	Vanadium oxide-propylene carbonate composite as a host for the intercalation of polyvalent cations. Solid State Ionics, 2005, 176, 2735-2747.	1.3	41
36	Nanostructure of Er ³⁺ doped silicates. Microscopy (Oxford, England), 2005, 54, 309-315.	0.7	2

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37	Synthesis and Characterization of Nafion/60SiO ₂ -30P ₂ O ₅ -10ZrO ₂ Sol-Gel Composite Membranes for PEMFCs. Journal of the Electrochemical Society, 2005, 152, A493.	1.3	40
38	OPTICAL MATERIALS Sol-Gel Materials. , 2005, , 16-21.		0
39	Bismuth Fluoride Nanocomposite as a Positive Electrode Material for Rechargeable Lithium Batteries. Electrochemical and Solid-State Letters, 2005, 8, A179.	2.2	111
40	Modifying Nafion with Nanostructured Inorganic Oxides for Proton Exchange Membrane Fuel Cells. Materials Research Society Symposia Proceedings, 2004, 822, S8.4.1.	0.1	4
41	Thin and Thick RuO ₂ -TiO ₂ Coatings on Titanium Substrates by the Sol-Gel Process. Journal of Sol-Gel Science and Technology, 2004, 29, 81-88.	1.1	21
42	Particle size and multiphase effects on cycling stability using tin-based materials. Solid State Ionics, 2004, 167, 29-40.	1.3	43
43	Broad, flat fluorescence emissions from nanostructured rare-earth doped silicates. , 2004, , .		1
44	Sol-Gel Synthesis and Characterization of SiO ₂ â€”P ₂ O ₅ â€”ZrO ₂ . Journal of Sol-Gel Science and Technology, 2003, 28, 199-204.	1.1	30
45	Characterization of SiO ₂ -P ₂ O ₅ -ZrO ₂ Sol-Gel/NAFIONâ„¢ Composite Membranes. Journal of Sol-Gel Science and Technology, 2003, 26, 1055-1059.	1.1	43
46	Electrochemistry of Cu ₃ N with Lithium. Journal of the Electrochemical Society, 2003, 150, A1273.	1.3	153
47	The Electrochemistry of Germanium Nitride with Lithium. Journal of the Electrochemical Society, 2003, 150, A1118.	1.3	72
48	The Electrochemistry of Germanium Nitride Versus Lithium. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
49	The Electrochemistry of Zn ₃ N ₂ and LiZnN. Journal of the Electrochemical Society, 2002, 149, A262.	1.3	158
50	Ac Impedance Spectroscopy Study of Modified Proton-Exchange Membrane Nanocomposites. Materials Research Society Symposia Proceedings, 2002, 733, 1.	0.1	1
51	Solution Preparation of Li(Co, Fe)O ₂ Coatings for Molten Carbonate Fuel Cell Components. Journal of Sol-Gel Science and Technology, 2001, 21, 203-211.	1.1	6
52	Mechanical Properties of Soluble Polymer/Silica Gel Hybrids. Materials Research Society Symposia Proceedings, 1999, 576, 337.	0.1	1
53	High molecular weight poly(ethylene oxide)/silica hybrids by the sol-gel process. Materials Science and Engineering C, 1998, 6, 115-120.	3.8	15
54	Evolution of the Phase Content of Zirconia Powders Prepared by Solâ€”Gel Acid Hydrolysis. Journal of the American Ceramic Society, 1998, 81, 200-204.	1.9	9

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55	<title>Controlling transparency in polyethylene (PEO)/silica gels</title>. , 1997, , .		1
56	Transparent polymer/silica hybrid gels. , 1997, , .		0
57	Processing and dielectric properties of sol-gel derived bst thin films. Integrated Ferroelectrics, 1997, 15, 99-106.	0.3	6
58	Synthesis of Alumina and Silica-Containing Alumina Xerogel Hosts. Journal of Sol-Gel Science and Technology, 1997, 10, 177-184.	1.1	5
59	Transparent Organic/Inorganic Hybrid Gels: A Classification Scheme. Applied Organometallic Chemistry, 1997, 11, 129-135.	1.7	43
60	Experimental Design Applied to the Chemical Durability of Solâ€œGelâ€œDerived Zirconias. Journal of the American Ceramic Society, 1997, 80, 1469-1476.	1.9	8
61	Thermal weight loss of silica-poly(vinyl acetate) (PVAc) sol-gel composites. Journal of Thermal Analysis, 1996, 46, 55-65.	0.7	12
62	Preparation and Characterization of BaxSr1-x, TiO3 Thin Films by a Sol-Gel Technique. Journal of the American Ceramic Society, 1996, 79, 1593-1598.	1.9	174
63	Transparent inorganic/organic copolymers by the Sol-Gel process: Copolymers of tetraethyl orthosilicate (TEOS), vinyl triethoxysilane (VTES) and (meth)acrylate monomers. Journal of Sol-Gel Science and Technology, 1995, 4, 57-66.	1.1	45
64	Transparent inorganic/organic copolymers by the sol-gel process: Thermal behavior of copolymers of tetraethyl orthosilicate (TEOS), vinyl triethoxysilane (VTES) and (meth)acrylate monomers. Journal of Sol-Gel Science and Technology, 1995, 5, 77-82.	1.1	19
65	Zirconia Gels in Concentrated NaOH. Journal of the American Ceramic Society, 1995, 78, 221-224.	1.9	14
66	Perturbed-Angular-Correlation Study of Zirconias Produced by the Sol-Gel Method. Journal of the American Ceramic Society, 1995, 78, 1329-1334.	1.9	13
67	Characterization of Supported Alumina Membranes Formed by an in situ Sol-Gel Method. Journal of the American Ceramic Society, 1995, 78, 3149-3152.	1.9	8
68	Ionic conductivity in lithium aluminosilicate xerogels and gel films. Solid State Ionics, 1995, 81, 217-224.	1.3	7
69	Organic-inorganic gels based on silica and multifunctional acrylates. Journal of Sol-Gel Science and Technology, 1994, 2, 115-120.	1.1	15
70	Glycol-based sol-gel process for the fabrication of ferroelectric PZT thin films. Journal of Sol-Gel Science and Technology, 1994, 2, 605-609.	1.1	21
71	Sol-gel electrolytes in lithium batteries. Journal of Sol-Gel Science and Technology, 1994, 2, 611-613.	1.1	9
72	Synthesis and Characterization of Amorphous Si2N2O. Journal of the American Ceramic Society, 1994, 77, 2699-2702.	1.9	65

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73	Sol-Gel Lithium Silicate Electrolyte Thin Films. Materials Research Society Symposia Proceedings, 1994, 346, 189.	0.1	2
74	<title>Organically modified silicate coatings for optical fibers</title>. , 1994, 2074, 135.		3
75	Nanocomposite Fabrication for Transparent Windows. , 1994, , 215-232.		5
76	Sol-Gel Optical Materials. Annual Review of Materials Research, 1993, 23, 437-452.	5.5	65
77	Evaluation of the Kinetic Parameters of the Sodium Insertion in Sodium Molybdates by Impedance Spectroscopy. Journal of the Electrochemical Society, 1992, 139, 2359-2362.	1.3	3
78	The effect of heat treatment time on lithium-containing Al ₂ O ₃ SiO ₂ gels: a study by ⁷ Li NMR. Journal of Non-Crystalline Solids, 1992, 146, 129-136.	1.5	2
79	Effect of precursors on the structure of phosphosilicate gels: ²⁹ Si and ³¹ P MAS-NMR study. Journal of Non-Crystalline Solids, 1992, 143, 21-30.	1.5	128
80	Ionic conductivity and structure of lithium chloride-alumina-silica xerogels. Chemistry of Materials, 1992, 4, 191-197.	3.2	15
81	Supported Alumina Members by an in-Situ Sol-Gel Method. Journal of the American Ceramic Society, 1992, 75, 2613-2614.	1.9	12
82	Identification of the sodium diffusion mechanisms within the layered Na(Li) _x Mo ₂ O ₄ system. Effect of water and exchange of sodium by lithium. Solid State Ionics, 1992, 58, 163-172.	1.3	0
83	Unsupported alkoxide-derived silica membranes. Colloids and Surfaces, 1992, 63, 173-179.	0.9	9
84	Microporous oxides by the sol-gel process: synthesis and applications. Catalysis Today, 1992, 14, 165-173.	2.2	25
85	Ac complex impedance, dc resistivity, ⁷ Li and ²³ Na NMR studies of the layered Li(Na) _x Mo ₂ O ₄ system. Solid State Ionics, 1991, 46, 283-289.	1.3	9
86	The effect of precursors on the ionic conductivity in lithium silicate gels. Solid State Ionics, 1991, 46, 291-297.	1.3	15
87	Preparation, characterization and ionic conductivity of (LiCl) ₂ -B ₂ O ₃ -SiO ₂ xerogels. Solid State Ionics, 1991, 47, 297-304.	1.3	14
88	Mechanical Properties of Silica Xerogels. Journal of the American Ceramic Society, 1991, 74, 1469-1471.	1.9	7
89	Sol-Gel Coatings. , 1991, , 501-522.		8
90	Elastic Properties of Silica Xerogels. Journal of the American Ceramic Society, 1990, 73, 3466-3469.	1.9	10

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91	Effect of precursors on lithium containing silicate gels studied by ^7Li nuclear magnetic resonance. Journal of Non-Crystalline Solids, 1990, 121, 90-97.	1.5	17
92	Densification of sol-gel silica: Constant rate heating, isothermal and step heat treatments. Journal of Non-Crystalline Solids, 1990, 121, 119-123.	1.5	17
93	Analysis of precursor residues in lithium aluminosilicate gels using XPS and RGA. Journal of Non-Crystalline Solids, 1990, 120, 267-274.	1.5	10
94	Lithia distribution in infiltrated silica gels. Journal of Non-Crystalline Solids, 1990, 122, 291-297.	1.5	8
95	X-ray diffraction and ^{29}Si NMR study of polymerized and infiltrated lithium silicate gels. Journal of Non-Crystalline Solids, 1990, 124, 91-100.	1.5	22
96	Effect of methanol concentration on lithium aluminosilicate gels. Journal of Non-Crystalline Solids, 1989, 109, 69-78.	1.5	18
97	Hydrolysis in the Aluminum sec-Butoxide-Water-Isopropyl Alcohol System: I, Rheology and Gel Structures. Journal of the American Ceramic Society, 1988, 71, 83-85.	1.9	38
98	Hydrolysis in the Aluminum sec-Butoxide-Water-Isopropyl Alcohol System: II, Aging and Microstructure. Journal of the American Ceramic Society, 1988, 71, 86-90.	1.9	43
99	Early Stages of Alumina Sol-Gel Formation in Acidic Media: An ^{27}Al Nuclear Magnetic Resonance Spectroscopy Investigation. Journal of the American Ceramic Society, 1988, 71, C-85-C-87.	1.9	46
100	Effect of dehydration on the viscosity of sol-gel processed silica. Journal of Non-Crystalline Solids, 1988, 100, 429-434.	1.5	7
101	Crystallization of lithium aluminosilicate gels. Journal of Non-Crystalline Solids, 1988, 102, 269-274.	1.5	17
102	Pore structures of sol-gel silica membranes. Journal of Membrane Science, 1988, 39, 213-220.	4.1	32
103	Processing Alumina Gels: Effects on Surface Area and Pore Volume. Advanced Ceramic Materials, 1988, 3, 167-170.	2.3	22
104	Investigation of the Effect of Dimethylformamide Addition on Alumina Sol-Gel Formation by ^{27}Al NMR and Rheology Measurements. Materials Research Society Symposia Proceedings, 1988, 121, 133.	0.1	5
105	Shrinkage of lithium aluminosilicate gels during drying. Journal of Non-Crystalline Solids, 1987, 93, 415-422.	1.5	15
106	High temperature visible spectroscopy of Co^{2+} ions in sodium phosphate glasses. Journal of Non-Crystalline Solids, 1986, 79, 75-82.	1.5	7
107	Apparent viscosity of sol-gel processed silica. Journal of Non-Crystalline Solids, 1986, 82, 198-204.	1.5	23
108	Stability of lithium silicate gels. Journal of Non-Crystalline Solids, 1986, 83, 391-399.	1.5	36

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109	Effects of water content of gels on sol-gel glass structures. Journal of Non-Crystalline Solids, 1986, 84, 325-328.	1.5	6
110	Transparent Microporous Silica Fibers by the Sol-Gel Process. Proceedings of SPIE, 1986, , .	0.8	2
111	Silica membranes by the sol-gel process. Journal of Colloid and Interface Science, 1986, 109, 40-45.	5.0	20
112	Electron-spin-resonance (ESR) study of sol-gel glasses. Journal of Non-Crystalline Solids, 1985, 71, 327-333.	1.5	31
113	Sol-Gel Processing of Silicates. Annual Review of Materials Research, 1985, 15, 227-248.	5.5	263
114	Optical spectra of sodium phosphate glasses. Journal of Non-Crystalline Solids, 1984, 68, 75-86.	1.5	43
115	Densification of monolithic silica gels below 1000°C. Journal of Non-Crystalline Solids, 1984, 63, 23-33.	1.5	78
116	Transparent Microporous Silica By The Sol-Gel Process. Proceedings of SPIE, 1984, , .	0.8	1
117	Unidirectional crystallization of potassium disilicate. Journal of Crystal Growth, 1983, 64, 471-478.	0.7	1
118	Unidirectional crystallization of potassium disilicate II. Experimental study. Journal of Crystal Growth, 1983, 64, 479-484.	0.7	6
119	Monolithic dried gels. Journal of Non-Crystalline Solids, 1982, 48, 97-104.	1.5	54
120	Nucleation kinetics of sodium disilicate. Journal of Crystal Growth, 1977, 42, 47-51.	0.7	34
121	Sintering, crystallization, and breccia formation. The Moon, 1975, 13, 277-284.	0.4	10
122	Advanced Ceramics Processing. , 0, , 1113-1128.		2
123	Silica-Containing Hybrid Nanocomposite "Melting Gels". Materials Science Forum, 0, 783-786, 1432-1437.	0.3	5
124	Oxide Coatings from the Sol-Gel Process. Ceramic Engineering and Science Proceedings, 0, , 379-384.	0.1	9
125	Electrochemical Properties of Melting Gel Coatings. , 0, , 233-241.		1
126	Texturing melting gels for water harvesting. Journal of Sol-Gel Science and Technology, 0, , 1.	1.1	1