

Byeong-Soo Bae

List of Publications by Year in descending order

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271
papers

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41258

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76769

74
g-index

277
all docs

277
docs citations

277
times ranked

8571
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance solution-processed amorphous zinc tin oxide thin film transistor. Journal Physics D: Applied Physics, 2009, 42, 035106.	1.3	227
2	Chitin Nanofiber Transparent Paper for Flexible Green Electronics. Advanced Materials, 2016, 28, 5169-5175.	11.1	213
3	An aqueous route™ for the fabrication of low-temperature-processable oxide flexible transparent thin-film transistors on plastic substrates. NPG Asia Materials, 2013, 5, e45-e45.	3.8	210
4	Thermally Stable Transparent Sol-gel Based Siloxane Hybrid Material with High Refractive Index for Light Emitting Diode (LED) Encapsulation. Chemistry of Materials, 2010, 22, 3549-3555.	3.2	175
5	Stretchable and Transparent Electrodes using Hybrid Structures of Graphene-Metal Nanotrough Networks with High Performances and Ultimate Uniformity. Nano Letters, 2014, 14, 6322-6328.	4.5	168
6	Flexible Transparent Conducting Hybrid Film Using a Surface-Embedded Copper Nanowire Network: A Highly Oxidation-Resistant Copper Nanowire Electrode for Flexible Optoelectronics. ACS Nano, 2014, 8, 10973-10979.	7.3	166
7	Solution-Processed Indium-Zinc Oxide Transparent Thin-Film Transistors. Electrochemical and Solid-State Letters, 2008, 11, H7.	2.2	163
8	Solution-Processed Flexible Fluorine-doped Indium Zinc Oxide Thin-Film Transistors Fabricated on Plastic Film at Low Temperature. Scientific Reports, 2013, 3, 2085.	1.6	150
9	Raman spectroscopy of copper phosphate glasses. Journal of Non-Crystalline Solids, 1997, 212, 173-179.	1.5	133
10	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. Science Advances, 2019, 5, eaay0764.	4.7	117
11	Flexible Hard Coating: Glass-Like Wear Resistant, Yet Plastic-Like Compliant, Transparent Protective Coating for Foldable Displays. Advanced Materials, 2017, 29, 1700205.	11.1	107
12	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. Nanoscale, 2016, 8, 17113-17121.	2.8	97
13	Flexible transparent conducting composite films using a monolithically embedded AgNW electrode with robust performance stability. Nanoscale, 2014, 6, 711-715.	2.8	95
14	A flexible moisture barrier comprised of a SiO ₂ -embedded organic-inorganic hybrid nanocomposite and Al ₂ O ₃ for thin-film encapsulation of OLEDs. Organic Electronics, 2013, 14, 1435-1440.	1.4	91
15	Hybrid crystalline-ITO/metal nanowire mesh transparent electrodes and their application for highly flexible perovskite solar cells. NPG Asia Materials, 2016, 8, e282-e282.	3.8	89
16	High-performance hybrid plastic films: a robust electrode platform for thin-film optoelectronics. Energy and Environmental Science, 2013, 6, 1811.	15.6	85
17	Thin film encapsulation for organic light emitting diodes using a multi-barrier composed of MgO prepared by atomic layer deposition and hybrid materials. Organic Electronics, 2013, 14, 1737-1743.	1.4	85
18	Full-Color Mesophase Silicate Thin Film Phosphors Incorporated with Rare Earth Ions and Photosensitizers. Advanced Materials, 2007, 19, 3473-3479.	11.1	84

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19	High performance organic-inorganic hybrid barrier coating for encapsulation of OLEDs. <i>Journal of Materials Chemistry</i> , 2011, 21, 1977-1983.	6.7	84
20	Wireless powered wearable micro light-emitting diodes. <i>Nano Energy</i> , 2019, 55, 454-462.	8.2	83
21	Optically Transparent Multiscale Composite Films for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2020, 32, e1907143.	11.1	78
22	Rollable Transparent Glass/Fabric Reinforced Composite Substrate for Flexible Devices. <i>Advanced Materials</i> , 2010, 22, 4510-4515.	11.1	77
23	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. <i>Nanoscale</i> , 2016, 8, 3916-3922.	2.8	76
24	Silica nanoparticle-embedded sol-gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. <i>Organic Electronics</i> , 2012, 13, 53-57.	1.4	75
25	Biomimetic Chitin/Silk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1705480.	7.8	74
26	Optical absorption of copper phosphate glasses in the visible spectrum. <i>Journal of Non-Crystalline Solids</i> , 1994, 168, 223-231.	1.5	73
27	Quantum Dot/Siloxane Composite Film Exceptionally Stable against Oxidation under Heat and Moisture. <i>Journal of the American Chemical Society</i> , 2016, 138, 16478-16485.	6.6	73
28	Thermally resistant UV-curable epoxy-siloxane hybrid materials for light emitting diode (LED) encapsulation. <i>Journal of Materials Chemistry</i> , 2012, 22, 8874.	6.7	71
29	Oxidation-Reduction Equilibrium in Copper Phosphate Glass Melted in Air. <i>Journal of the American Ceramic Society</i> , 1991, 74, 3039-3045.	1.9	68
30	High performance encapsulant for light-emitting diodes (LEDs) by a sol-gel derived hydrogen siloxane hybrid. <i>Journal of Materials Chemistry</i> , 2012, 22, 7954.	6.7	67
31	Sol-gel processed Cu ₂ ZnSnS ₄ thin films for a photovoltaic absorber layer without sulfurization. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 23-27.	1.1	67
32	Measurement of the thermo-optic coefficients in sol-gel derived inorganic-organic hybrid material films. <i>Applied Physics Letters</i> , 2002, 81, 1438-1440.	1.5	65
33	Fluorinated Organic-Inorganic Hybrid Mold as a New Stamp for Nanoimprint and Soft Lithography. <i>Langmuir</i> , 2005, 21, 9390-9392.	1.6	65
34	Improved Electrical Performance and Bias Stability of Solution-Processed Active Bilayer Structure of Indium Zinc Oxide based TFT. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15335-15343.	4.0	65
35	Reliable thin-film encapsulation of flexible OLEDs and enhancing their bending characteristics through mechanical analysis. <i>RSC Advances</i> , 2016, 6, 40835-40843.	1.7	64
36	Flexible Transparent Conductive Films with High Performance and Reliability Using Hybrid Structures of Continuous Metal Nanofiber Networks for Flexible Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20299-20305.	4.0	62

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37	Effect of increased surface area of stainless steel substrates on the efficiency of dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	60
38	Nanopatterning of photonic crystals with a photocurable silica-titania organic-inorganic hybrid material by a UV-based nanoimprint technique. <i>Journal of Materials Chemistry</i> , 2005, 15, 4535.	6.7	59
39	Postannealing Process for Low Temperature Processed Sol-Gel Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H357.	2.2	58
40	A Flexible and Robust Transparent Conducting Electrode Platform Using an Electroplated Silver Grid/Surface-Embedded Silver Nanowire Hybrid Structure. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27035-27043.	4.0	57
41	The encapsulation of an organic light-emitting diode using organic-inorganic hybrid materials and MgO. <i>Organic Electronics</i> , 2011, 12, 609-613.	1.4	56
42	Effects of the oxygen vacancy concentration in InGaZnO-based resistance random access memory. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	55
43	Ultraviolet Light Stable and Transparent Sol-Gel Methyl Siloxane Hybrid Material for UV Light-Emitting Diode (UV LED) Encapsulant. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1035-1039.	4.0	54
44	Thermally Stable, Dye-Bridged Nanohybrid-Based White Light-Emitting Diodes. <i>Advanced Materials</i> , 2011, 23, 5767-5772.	11.1	53
45	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. <i>Advanced Materials</i> , 2021, 33, e2005255.	11.1	53
46	Effect of Surface Energy on Pentacene Growth and Characteristics of Organic Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, G37.	2.2	51
47	Ultraviolet Photo-Annealing Process for Low Temperature Processed Sol-Gel Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, H91.	2.2	51
48	Sol-Gel Derived Transparent Zirconium-Phenyl Siloxane Hybrid for Robust High Refractive Index LED Encapsulant. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3115-3121.	4.0	51
49	Thermally Stable Siloxane Hybrid Matrix with Low Dielectric Loss for Copper-Clad Laminates for High-Frequency Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8335-8340.	4.0	51
50	Highly reliable hybrid nano-stratified moisture barrier for encapsulating flexible OLEDs. <i>Organic Electronics</i> , 2016, 33, 150-155.	1.4	51
51	Synthesis of colorless imide hybrid nanocomposites using amine functionalized oligosiloxane nano-building clusters. <i>Journal of Materials Chemistry</i> , 2006, 16, 1657.	6.7	50
52	Indirect excitation of Er ³⁺ in sol-gel hybrid films doped with an erbium complex. <i>Applied Physics Letters</i> , 2003, 82, 2787-2789.	1.5	46
53	Er ³⁺ luminescence and cooperative upconversion in Er _x Y _{2-\hat{x}} SiO ₅ nanocrystal aggregates fabricated using Si nanowires. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	46
54	A mechanically enhanced hybrid nano-stratified barrier with a defect suppression mechanism for highly reliable flexible OLEDs. <i>Nanoscale</i> , 2017, 9, 6370-6379.	2.8	46

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55	Alcohol gas sensors capable of wireless detection using In ₂ O ₃ /Pt nanoparticles and Ag nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 825-832.	4.0	45
56	Large-scale fabrication of single-phase Er ₂ SiO ₅ nanocrystal aggregates using Si nanowires. <i>Applied Physics Letters</i> , 2006, 89, 223102.	1.5	44
57	Preparation of aâ€™%â€™â€™%SiN x Thin Film with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , 1998, 145, 652-658.	1.3	43
58	Addition of aluminum to solution processed conductive indium tin oxide thin film for an oxide thin film transistor. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	43
59	Dye-sensitized solar cells with TiO ₂ nano-particles on TiO ₂ nano-tube-grown Ti substrates. <i>Journal of Materials Chemistry</i> , 2011, 21, 3558.	6.7	43
60	Photo-imageable Solâ€™Gel Hybrid Materials for Simple Fabrication of Micro-optical Elements. <i>Accounts of Chemical Research</i> , 2007, 40, 903-912.	7.6	42
61	Solution-Processed, High Performance Aluminum Indium Oxide Thin-Film Transistors Fabricated at Low Temperature. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H336.	2.2	42
62	Complementary p- and n-Type Polymer Doping for Ambient Stable Graphene Inverter. <i>ACS Nano</i> , 2014, 8, 650-656.	7.3	42
63	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24161-24168.	4.0	42
64	Ultraviolet optical absorptions of semiconducting copper phosphate glasses. <i>Journal of Applied Physics</i> , 1993, 73, 7760-7766.	1.1	41
65	Fabrication and characterization of sol-gel-derived zinc oxide thin-film transistor. <i>Journal of Materials Research</i> , 2010, 25, 695-700.	1.2	41
66	Moisture Barrier Composites Made of Nonâ€™Oxidized Graphene Flakes. <i>Small</i> , 2015, 11, 3124-3129.	5.2	41
67	Preparation and Optical Properties of Silica-Poly(ethylene oxide) Hybrid Materials. <i>Journal of Sol-Gel Science and Technology</i> , 1999, 16, 235-241.	1.1	40
68	Cycloaliphatic epoxy oligosiloxaneâ€™derived hybrid materials for a highâ€™refractive index LED encapsulant. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2478-2485.	1.3	39
69	Synthesis and molecular structure analysis of nano-sized methacryl-grafted polysiloxane resin for fabrication of nano hybrid materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 827-836.	2.4	38
70	Synthesis of fluorinated hybrid material for UV embossing of a large core optical waveguide structure. <i>Journal of Materials Chemistry</i> , 2005, 15, 465.	6.7	38
71	A Simple and Highly Efficient Method for Surface Treatment of Ti Substrates for Use in Dyeâ€™Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 337-342.	10.2	38
72	Photoluminescence of mesoporous silica films impregnated with an erbium complex. <i>Journal of Materials Research</i> , 2003, 18, 1039-1042.	1.2	37

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73	Optical characteristics of photo-curable methacryl-oligosiloxane nano hybrid thick films. Journal of Materials Research, 2005, 20, 401-408.	1.2	37
74	Photoinduced condensation of sol-gel hybrid glass films doped with benzildimethylketal. Journal of Materials Research, 2001, 16, 2143-2148.	1.2	36
75	Conformable microneedle pH sensors via the integration of two different siloxane polymers for mapping peripheral artery disease. Science Advances, 2021, 7, eabi6290.	4.7	36
76	Effect of photoinitiator on photopolymerization of inorganic-organic hybrid polymers (ORMOCER®). Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1979-1986.	2.4	35
77	Low-Temperature and High-Quality Growth of Bi ₂ O ₂ Se Layered Semiconductors via Cracking Metal-Organic Chemical Vapor Deposition. ACS Nano, 2021, 15, 8715-8723.	7.3	35
78	Direct laser writing of self-developed waveguides in benzylidimethylketal-doped sol-gel hybrid glass. Journal of Materials Research, 2001, 16, 3184-3187.	1.2	34
79	Fabrication of Ridge Waveguides by UV Embossing and Stamping of Sol-Gel Hybrid Materials. IEEE Photonics Technology Letters, 2004, 16, 1888-1890.	1.3	34
80	Direct stamping of silver nanoparticles toward residue-free thick electrode. Science and Technology of Advanced Materials, 2012, 13, 035004.	2.8	34
81	Photo-Patternable Quantum Dots/Siloxane Composite with Long-Term Stability for Quantum Dot Color Filters. ACS Applied Materials & Interfaces, 2020, 12, 3961-3968.	4.0	34
82	Title is missing!. Journal of Sol-Gel Science and Technology, 1998, 13, 409-413.	1.1	33
83	Thermal stability of sol-gel derived methacrylate oligosiloxane-based hybrids for LED encapsulants. Journal of Sol-Gel Science and Technology, 2010, 53, 434-440.	1.1	33
84	Sol-gel synthesized linear oligosiloxane-based hybrid material for a thermally-resistant light emitting diode (LED) encapsulant. RSC Advances, 2013, 3, 8871.	1.7	32
85	Spectroscopic ellipsometry and Raman study of fluorinated nanocrystalline carbon thin films. Journal of Applied Physics, 2001, 90, 813-818.	1.1	31
86	Erbium-thulium interaction in broadband infrared luminescent silicon-rich silicon oxide. Applied Physics Letters, 2003, 82, 3445-3447.	1.5	31
87	Photo-curable siloxane hybrid material fabricated by a thiol-ene reaction of sol-gel synthesized oligosiloxanes. Chemical Communications, 2011, 47, 6051.	2.2	31
88	Crystallization of Copper Metaphosphate Glass. Journal of the American Ceramic Society, 1993, 76, 1395-1400.	1.9	30
89	Simple fabrication of diffraction gratings by two-beam interference method in highly photosensitive hybrid sol-gel films. Optics Express, 2004, 12, 3947.	1.7	30
90	Thermal resistance of cycloaliphatic epoxy hybrimer based on sol-gel derived oligosiloxane for LED encapsulation. Journal of Applied Polymer Science, 2010, 117, 2140-2145.	1.3	30

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91	Highly Condensed Fluorinated Methacrylate Hybrid Material for Transparent Low-k Passivation Layer in LCD-TFT. ACS Applied Materials & Interfaces, 2010, 2, 913-918.	4.0	30
92	Improved negative bias illumination instability of sol-gel gallium zinc tin oxide thin film transistors. Applied Physics Letters, 2011, 99, .	1.5	30
93	Fabrication of transparent methacrylate zirconium siloxane hybrid materials using sol-gel synthesized oligosiloxane resin. Journal of Sol-Gel Science and Technology, 2011, 58, 114-120.	1.1	30
94	Conducting Nanopaper: A Carbon-Free Cathode Platform for Li-O ₂ Batteries. ACS Energy Letters, 2017, 2, 673-680.	8.8	30
95	Catalytic Effects of Aluminum Butoxyethoxide in Sol-Gel Hybrid Hard Coatings. Journal of Sol-Gel Science and Technology, 2003, 27, 23-29.	1.1	29
96	Flexible Transparent Crystalline-ITO/Ag Nanowire Hybrid Electrode with High Stability for Organic Optoelectronics. ACS Applied Materials & Interfaces, 2020, 12, 56462-56469.	4.0	29
97	Effects of Hydroxyl Groups in Gate Dielectrics on the Hysteresis of Organic Thin Film Transistors. Electrochemical and Solid-State Letters, 2007, 10, H347.	2.2	28
98	Transparent Urethane-Siloxane Hybrid Materials for Flexible Cover Windows with Ceramic-Like Strength, yet Polymer-Like Modulus. ACS Applied Materials & Interfaces, 2018, 10, 43122-43130.	4.0	28
99	Built-in Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). Advanced Functional Materials, 2018, 28, 1802944.	7.8	28
100	High-Performance and Simply-Synthesized Ladder-Like Structured Methacrylate Siloxane Hybrid Material for Flexible Hard Coating. Polymers, 2018, 10, 449.	2.0	28
101	Hierarchically Surface-Textured Ultrastable Hybrid Film for Large-Scale Triboelectric Nanogenerators. Advanced Functional Materials, 2020, 30, 2005610.	7.8	28
102	Measurement of Thermo-Optic Coefficients in Sol-Gel Hybrid Glass Films. Journal of Sol-Gel Science and Technology, 2003, 26, 981-984.	1.1	27
103	Photoinduced low refractive index in a photosensitive organic-inorganic hybrid material. Journal of Materials Chemistry, 2003, 13, 738-741.	6.7	27
104	Characterization and mesostructure control of mesoporous fluorinated organosilicate films. Journal of Materials Chemistry, 2004, 14, 1988.	6.7	27
105	Synthesis and characterization of photopatternable epoxy hybrid materials for the fabrication of thick and thermally stable microstructures with a high aspect ratio. Journal of Applied Polymer Science, 2008, 108, 3169-3176.	1.3	27
106	Improvement of bias stability of oxyanion-incorporated aqueous sol-gel processed indium zinc oxide TFTs. Journal of Materials Chemistry C, 2014, 2, 5998.	2.7	27
107	Transferable, flexible white light-emitting diodes of GaN p-n junction microcrystals fabricated by remote epitaxy. Nano Energy, 2021, 86, 106075.	8.2	27
108	The thermo-optic effect of Si nanocrystals in silicon-rich silicon oxidethin films. Applied Physics Letters, 2004, 85, 2526-2528.	1.5	26

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109	Condensation reaction of 3-(methacryloxypropyl)-trimethoxysilane and diisobutylsilanediol in non-hydrolytic sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 255-260.	1.1	26
110	Organic-inorganic hybrid materials as solution processible gate insulator for organic thin film transistors. <i>Organic Electronics</i> , 2007, 8, 743-748.	1.4	26
111	Highly Condensed Epoxy-Oligosiloxane-Based Hybrid Material for Transparent Low-k Dielectric Coatings. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1585-1590.	4.0	26
112	Preparation of high-performance transparent glass-fiber reinforced composites based on refractive index-tunable epoxy-functionalized siloxane hybrid matrix. <i>Composites Science and Technology</i> , 2021, 201, 108527.	3.8	26
113	Protein Micropatterning on Bifunctional Organic-Inorganic Sol-Gel Hybrid Materials. <i>Langmuir</i> , 2007, 23, 4732-4736.	1.6	25
114	Synthesis and luminescence properties of mesophase silica thin films doped with in-situ formed europium complex. <i>Journal of Luminescence</i> , 2008, 128, 565-572.	1.5	25
115	Exceptionally stable quantum dot/siloxane hybrid encapsulation material for white light-emitting diodes with a wide color gamut. <i>Nanoscale</i> , 2019, 11, 14887-14895.	2.8	25
116	Two-Step-Enhanced Stability of Quantum Dots via Silica and Siloxane Encapsulation for the Long-Term Operation of Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22801-22808.	4.0	25
117	Fabrication and Ultraviolet Absorption of Sol-Gel-Derived Germanium Oxide Glass Thin Films. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1356-1360.	1.9	24
118	Fabrication of Channel Waveguides by Photochemical Self-Developing in Doped Sol-Gel Hybrid Glass. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 897-901.	1.1	24
119	Post-Humid Annealing of Low-Temperature Solution-Processed Indium Based Metal Oxide TFTs. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, H303.	2.2	24
120	Ultraviolet-nanoimprint of 40 nm scale patterns using functionally modified fluorinated hybrid materials. <i>Nanotechnology</i> , 2006, 17, 3319-3324.	1.3	23
121	Optical filters fabricated in hybrimer media with soft lithography. <i>Optics Letters</i> , 2009, 34, 2510.	1.7	23
122	Single-step photopatterning of diffraction. <i>Optics Express</i> , 2003, 11, 1144.	1.7	22
123	High Photosensitive Sol-Gel Hybrid Materials for Direct Photo-Imprinting of Micro-Optics. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 309-315.	1.1	22
124	Optically recoverable, deep ultraviolet (UV) stable and transparent sol-gel fluoro siloxane hybrid material for a UV LED encapsulant. <i>RSC Advances</i> , 2016, 6, 26826-26834.	1.7	22
125	Photochromism in spiropyran impregnated fluorinated mesoporous organosilicate films. <i>Journal of Materials Research</i> , 2004, 19, 2503-2509.	1.2	21
126	Network structure-property relationship in UV-cured organic/inorganic hybrid nanocomposites. <i>Polymer Chemistry</i> , 2011, 2, 168-174.	1.9	21

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127	Effects of Sol-Gel Organic-Inorganic Hybrid Passivation on Stability of Solution-Processed Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, H375.	2.2	21
128	Highly Conducting In ₂ O ₃ Nanowire Network with Passivating ZrO ₂ Thin Film for Solution-Processed Field Effect Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1600218.	2.6	21
129	Photochemical reactions in fluorinated sol-gel hybrid materials doped with a photolocking agent for direct micropatterning. <i>Journal of Materials Chemistry</i> , 2004, 14, 1749-1753.	6.7	20
130	Low adhesive force of fluorinated sol-gel hybrid materials for easy de-moulding in a UV-based nano-imprint process. <i>Nanotechnology</i> , 2006, 17, 1212-1216.	1.3	20
131	Novel Ionic Iodide-Siloxane Hybrid Electrolyte for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 293-298.	4.0	20
132	Photocurable transparent cycloaliphatic epoxy hybrid materials crosslinked by oxetane. <i>Journal of Applied Polymer Science</i> , 2012, 126, E380.	1.3	20
133	Crystallization Behavior of Sol-Gel-Derived Strontium Barium Niobate Thin Films. <i>Journal of the American Ceramic Society</i> , 2001, 84, 193-199.	1.9	19
134	Thermo-mechanical/thermal properties of photo-cationic polymerized cyclo-aliphatic epoxy hybrid materials. <i>Macromolecular Research</i> , 2011, 19, 1166-1171.	1.0	19
135	Effect of Aluminum and Gallium Doping on the Performance of Solution-Processed Indium Oxide Thin-Film Transistors. <i>Journal of Display Technology</i> , 2013, 9, 704-709.	1.3	19
136	Space charge-induced unusually-high mobility of a solution-processed indium oxide thin film transistor with an ethylene glycol incorporated aluminum oxide gate dielectric. <i>RSC Advances</i> , 2015, 5, 102362-102366.	1.7	19
137	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. <i>Advanced Functional Materials</i> , 2021, 31, 2010254.	7.8	19
138	Stretchable Printed Circuit Board Based on Leak-Free Liquid Metal Interconnection and Local Strain Control. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1826-1837.	4.0	19
139	Deposition of Fluorinated Amorphous Carbon Thin Films as a Low-Dielectric-Constant Material. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3383-3388.	1.3	18
140	Photobleaching of β -Glycidoxypropyltrimethoxysilane-Chelated Metal Alkoxide Gel Films. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 607-610.	1.1	18
141	Metal-containing thin-film encapsulation with flexibility and heat transfer. <i>Journal of Information Display</i> , 2015, 16, 123-128.	2.1	18
142	Thermowetting embossing nanoimprinting of the organic-inorganic hybrid materials. <i>Thin Solid Films</i> , 2005, 476, 181-184.	0.8	17
143	Direct photofabrication of refractive-index-modulated multimode optical waveguide using photosensitive sol-gel hybrid materials. <i>Applied Physics Letters</i> , 2005, 87, 221106.	1.5	17
144	Optical activation of Si nanowires using Er-doped, sol-gel derived silica. <i>Applied Physics Letters</i> , 2005, 86, 053101.	1.5	17

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145	Direct photofabrication of focal-length-controlled microlens array using photoinduced migration mechanisms of photosensitive sol-gel hybrid materials. <i>Optics Express</i> , 2006, 14, 8347.	1.7	17
146	Bias-Temperature-Illumination Stability of Aqueous Solution Processed Fluorine Doped Zinc Tin Oxide (ZTO:F) Transistor. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, H123.	2.2	17
147	Glass-Fabric Reinforced Ag Nanowire/Siloxane Composite Heater Substrate: Sub-10 nm Metal@Metal Oxide Nanosheet for Sensitive Flexible Sensing Platform. <i>Small</i> , 2018, 14, e1802260.	5.2	17
148	Controlling Neutral Plane of Flexible Substrates by Asymmetric Impregnation of Glass Fabric for Protecting Brittle Films on Foldable Electronics. <i>Advanced Engineering Materials</i> , 2021, 23, 2001280.	1.6	17
149	Preparation and Characterization of Structurally Stable Hexagonal and Cubic Mesoporous Silica Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 179-183.	1.1	16
150	Mechanism and Nanosize Products of the Sol-Gel Reaction Using Diphenylsilanediol and 3-Methacryloxypropyltrimethoxysilane as Precursors. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9397-9403.	1.2	16
151	Low-temperature aqueous solution processed fluorine-doped zinc tin oxide thin-film transistors. <i>MRS Communications</i> , 2012, 2, 17-22.	0.8	16
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