

# Byeong-Soo Bae

## List of Publications by Citations

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258  
papers

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44  
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66  
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277  
ext. papers

7,410  
ext. citations

5.9  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
258	High performance solution-processed amorphous zinc tin oxide thin film transistor. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 035106	3	202
257	An aqueous route for the fabrication of low-temperature-processable oxide flexible transparent thin-film transistors on plastic substrates. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e45-e45	10.3	183
256	Chitin Nanofiber Transparent Paper for Flexible Green Electronics. <i>Advanced Materials</i> , <b>2016</b> , 28, 5169-754	11.4	171
255	Thermally Stable Transparent Sol-Gel Based Siloxane Hybrid Material with High Refractive Index for Light Emitting Diode (LED) Encapsulation. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3549-3555	9.6	156
254	Solution-Processed Indium-Zinc Oxide Transparent Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2008</b> , 11, H7		155
253	Stretchable and transparent electrodes using hybrid structures of graphene-metal nanotrough networks with high performances and ultimate uniformity. <i>Nano Letters</i> , <b>2014</b> , 14, 6322-8	11.5	148
252	Flexible transparent conducting hybrid film using a surface-embedded copper nanowire network: a highly oxidation-resistant copper nanowire electrode for flexible optoelectronics. <i>ACS Nano</i> , <b>2014</b> , 8, 10973-9	16.7	145
251	Solution-processed flexible fluorine-doped indium zinc oxide thin-film transistors fabricated on plastic film at low temperature. <i>Scientific Reports</i> , <b>2013</b> , 3, 2085	4.9	130
250	Raman spectroscopy of copper phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 212, 173-179	3.9	117
249	Full-Color Mesophase Silicate Thin Film Phosphors Incorporated with Rare Earth Ions and Photosensitizers. <i>Advanced Materials</i> , <b>2007</b> , 19, 3473-3479	24	82
248	Flexible transparent conducting composite films using a monolithically embedded AgNW electrode with robust performance stability. <i>Nanoscale</i> , <b>2014</b> , 6, 711-5	7.7	81
247	High-performance hybrid plastic films: a robust electrode platform for thin-film optoelectronics. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1811	35.4	78
246	Hybrid crystalline-ITO/metal nanowire mesh transparent electrodes and their application for highly flexible perovskite solar cells. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e282-e282	10.3	76
245	High performance organic-inorganic hybrid barrier coating for encapsulation of OLEDs. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1977-1983		76
244	Thin film encapsulation for organic light emitting diodes using a multi-barrier composed of MgO prepared by atomic layer deposition and hybrid materials. <i>Organic Electronics</i> , <b>2013</b> , 14, 1737-1743	3.5	75
243	A flexible moisture barrier comprised of a SiO <sub>2</sub> -embedded organic/inorganic hybrid nanocomposite and Al <sub>2</sub> O <sub>3</sub> for thin-film encapsulation of OLEDs. <i>Organic Electronics</i> , <b>2013</b> , 14, 1435-1440	3.5	74
242	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. <i>Nanoscale</i> , <b>2016</b> , 8, 17113-17121	7.7	73

241	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. <i>Science Advances</i> , <b>2019</b> , 5, eaay0764	14.3	67
240	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. <i>Nanoscale</i> , <b>2016</b> , 8, 3916-22	7.7	65
239	Silica nanoparticle-embedded sol-gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. <i>Organic Electronics</i> , <b>2012</b> , 13, 53-57	3.5	63
238	Rollable transparent glass-fabric reinforced composite substrate for flexible devices. <i>Advanced Materials</i> , <b>2010</b> , 22, 4510-5	24	63
237	High performance encapsulant for light-emitting diodes (LEDs) by a sol-gel derived hydrogen siloxane hybrid. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7954		60
236	Measurement of the thermo-optic coefficients in sol-gel derived inorganic-organic hybrid material films. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1438-1440	3.4	60
235	Flexible Hard Coating: Glass-Like Wear Resistant, Yet Plastic-Like Compliant, Transparent Protective Coating for Foldable Displays. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700205	24	59
234	Thermally resistant UV-curable epoxy-siloxane hybrid materials for light emitting diode (LED) encapsulation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8874		59
233	Sol-gel processed Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films for a photovoltaic absorber layer without sulfurization. <i>Journal of Sol-Gel Science and Technology</i> , <b>2013</b> , 65, 23-27	2.3	59
232	Fluorinated organic-inorganic hybrid mold as a new stamp for nanoimprint and soft lithography. <i>Langmuir</i> , <b>2005</b> , 21, 9390-2	4	59
231	Optical absorption of copper phosphate glasses in the visible spectrum. <i>Journal of Non-Crystalline Solids</i> , <b>1994</b> , 168, 223-231	3.9	59
230	Oxidation-Reduction Equilibrium in Copper Phosphate Glass Melted in Air. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 3039-3045	3.8	58
229	Postannealing Process for Low Temperature Processed Sol-Gel Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, H357		56
228	Effect of increased surface area of stainless steel substrates on the efficiency of dye-sensitized solar cells. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 133311	3.4	56
227	Quantum Dot/Siloxane Composite Film Exceptionally Stable against Oxidation under Heat and Moisture. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16478-16485	16.4	55
226	The encapsulation of an organic light-emitting diode using organic-organic hybrid materials and MgO. <i>Organic Electronics</i> , <b>2011</b> , 12, 609-613	3.5	54
225	Wireless powered wearable micro light-emitting diodes. <i>Nano Energy</i> , <b>2019</b> , 55, 454-462	17.1	54
224	Nanopatterning of photonic crystals with a photocurable silica-titania organic-organic hybrid material by a UV-based nanoimprint technique. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 4535		53

223	Reliable thin-film encapsulation of flexible OLEDs and enhancing their bending characteristics through mechanical analysis. <i>RSC Advances</i> , <b>2016</b> , 6, 40835-40843	3-7	53
222	Biomimetic ChitinBilk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705480	15.6	53
221	A Flexible and Robust Transparent Conducting Electrode Platform Using an Electroplated Silver Grid/Surface-Embedded Silver Nanowire Hybrid Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27035-27043	9.5	52
220	Thermally stable, dye-bridged nanohybrid-based white light-emitting diodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 5767-72	24	50
219	Effects of the oxygen vacancy concentration in InGaZnO-based resistance random access memory. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 243503	3-4	47
218	Ultraviolet Photo-Annealing Process for Low Temperature Processed Sol-Gel Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, H91		47
217	Improved electrical performance and bias stability of solution-processed active bilayer structure of indium zinc oxide based TFT. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15335-43	9.5	46
216	Effect of Surface Energy on Pentacene Growth and Characteristics of Organic Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, G37		46
215	Synthesis of colorless imide hybrid nanocomposites using amine functionalized oligosiloxane nano-building clusters. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1657		46
214	Flexible Transparent Conductive Films with High Performance and Reliability Using Hybrid Structures of Continuous Metal Nanofiber Networks for Flexible Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20299-20305	9.5	44
213	Indirect excitation of Er <sup>3+</sup> in sol-gel hybrid films doped with an erbium complex. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2787-2789	3-4	44
212	Highly reliable hybrid nano-stratified moisture barrier for encapsulating flexible OLEDs. <i>Organic Electronics</i> , <b>2016</b> , 33, 150-155	3-5	43
211	Sol-gel derived transparent zirconium-phenyl siloxane hybrid for robust high refractive index LED encapsulant. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3115-21	9.5	43
210	Ultraviolet light stable and transparent sol-gel methyl siloxane hybrid material for UV light-emitting diode (UV LED) encapsulant. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 1035-9	9.5	43
209	Dye-sensitized solar cells with TiO <sub>2</sub> nano-particles on TiO <sub>2</sub> nano-tube-grown Ti substrates. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3558		40
208	Solution-Processed, High Performance Aluminum Indium Oxide Thin-Film Transistors Fabricated at Low Temperature. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, H336		40
207	Addition of aluminum to solution processed conductive indium tin oxide thin film for an oxide thin film transistor. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 212109	3-4	39
206	Photo-imageable sol-gel hybrid materials for simple fabrication of micro-optical elements. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 903-12	24.3	39

205	Preparation of a - SiN x Thin Film with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 652-658	3.9	39
204	Complementary p- and n-type polymer doping for ambient stable graphene inverter. <i>ACS Nano</i> , <b>2014</b> , 8, 650-6	16.7	38
203	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , <b>2015</b> , 11, 3124-9	11	37
202	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> , <b>2005</b> , 43, 827-836	2.6	36
201	Cycloaliphatic epoxy oligosiloxane-derived hybrid materials for a high-refractive index LED encapsulant. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 2478-2485	2.9	35
200	Fabrication and characterization of sol-gel-derived zinc oxide thin-film transistor. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 695-700	2.5	35
199	Synthesis of fluorinated hybrid material for UV embossing of a large core optical waveguide structure. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 465		35
198	Photoluminescence of mesoporous silica films impregnated with an erbium complex. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1039-1042	2.5	35
197	Preparation and Optical Properties of Silica-Poly(ethylene oxide) Hybrid Materials. <i>Journal of Sol-Gel Science and Technology</i> , <b>1999</b> , 16, 235-241	2.3	35
196	A mechanically enhanced hybrid nano-stratified barrier with a defect suppression mechanism for highly reliable flexible OLEDs. <i>Nanoscale</i> , <b>2017</b> , 9, 6370-6379	7.7	34
195	Optically Transparent Multiscale Composite Films for Flexible and Wearable Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907143	24	34
194	Thermally Stable Siloxane Hybrid Matrix with Low Dielectric Loss for Copper-Clad Laminates for High-Frequency Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8335-40	9.5	34
193	Large-scale fabrication of single-phase Er <sub>2</sub> SiO <sub>5</sub> nanocrystal aggregates using Si nanowires. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 223102	3.4	34
192	Optical characteristics of photo-curable methacryl-oligosiloxane nano hybrid thick films. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 401-408	2.5	34
191	Ultraviolet optical absorptions of semiconducting copper phosphate glasses. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 7760-7766	2.5	34
190	A Simple and Highly Efficient Method for Surface Treatment of Ti Substrates for Use in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 337-342	21.8	33
189	Er <sup>3+</sup> luminescence and cooperative upconversion in Er <sub>x</sub> Y <sub>2-x</sub> SiO <sub>5</sub> nanocrystal aggregates fabricated using Si nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 121910	3.4	33
188	Effect of photoinitiator on photopolymerization of inorganic-organic hybrid polymers (ORMOCER <sup>®</sup> ). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 1979-1986	2.6	32

187	Photoinduced condensation of sol-gel hybrid glass films doped with benzildimethylketal. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 2143-2148	2.5	32
186	Direct stamping of silver nanoparticles toward residue-free thick electrode. <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 035004	7.1	31
185	Thermal stability of sol-gel derived methacrylate oligosiloxane-based hybrids for LED encapsulants. <i>Journal of Sol-Gel Science and Technology</i> , <b>2010</b> , 53, 434-440	2.3	30
184	Coating of Tetraethylorthosilicate (TEOS)/Vinyltriethoxysilane (VTES) Hybrid Solution on Polymer Films. <i>Journal of Sol-Gel Science and Technology</i> , <b>1998</b> , 13, 409-413	2.3	30
183	Fabrication of ridge waveguides by UV embossing and stamping of sol-gel hybrid materials. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1888-1890	2.2	30
182	Direct laser writing of self-developed waveguides in benzildimethylketal-doped sol-gel hybrid glass. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 3184-3187	2.5	30
181	Highly condensed fluorinated methacrylate hybrid material for transparent low-kappa passivation layer in LCD-TFT. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 913-8	9.5	29
180	Thermal resistance of cycloaliphatic epoxy hybrimer based on sol-gel derived oligosiloxane for LED encapsulation. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, 2140-2145	2.9	29
179	Alcohol gas sensors capable of wireless detection using In <sub>2</sub> O <sub>3</sub> /Pt nanoparticles and Ag nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 259, 825-832	8.5	28
178	Sol-gel synthesized linear oligosiloxane-based hybrid material for a thermally-resistant light emitting diode (LED) encapsulant. <i>RSC Advances</i> , <b>2013</b> , 3, 8871	3.7	28
177	Effects of Hydroxyl Groups in Gate Dielectrics on the Hysteresis of Organic Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, H347		28
176	Catalytic Effects of Aluminum Butoxyethoxide in Sol-Gel Hybrid Hard Coatings. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 27, 23-29	2.3	28
175	Conducting Nanopaper: A Carbon-Free Cathode Platform for LiD <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 673-680	20.1	27
174	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24161-24168	9.5	27
173	Improved negative bias illumination instability of sol-gel gallium zinc tin oxide thin film transistors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 152102	3.4	27
172	Erbium-Ethulium interaction in broadband infrared luminescent silicon-rich silicon oxide. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3445-3447	3.4	27
171	Simple fabrication of diffraction gratings by two-beam interference method in highly photosensitive hybrid sol-gel films. <i>Optics Express</i> , <b>2004</b> , 12, 3947-53	3.3	27
170	Organic-Inorganic hybrid materials as solution processible gate insulator for organic thin film transistors. <i>Organic Electronics</i> , <b>2007</b> , 8, 743-748	3.5	26

169	Synthesis and characterization of photopatternable epoxy hybrid materials for the fabrication of thick and thermally stable microstructures with a high aspect ratio. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 3169-3176	2.9	26
168	Measurement of Thermo-Optic Coefficients in Sol-Gel Hybrid Glass Films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 26, 981-984	2.3	26
167	Photoinduced low refractive index in a photosensitive organic/inorganic hybrid material. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 738-741		26
166	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005255	24	26
165	Photo-curable siloxane hybrid material fabricated by a thiol-ene reaction of sol-gel synthesized oligosiloxanes. <i>Chemical Communications</i> , <b>2011</b> , 47, 6051-3	5.8	25
164	Highly condensed epoxy-oligosiloxane-based hybrid material for transparent low-k dielectric coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1585-90	9.5	25
163	Protein micropatterning on bifunctional organic-inorganic sol-gel hybrid materials. <i>Langmuir</i> , <b>2007</b> , 23, 4732-6	4	25
162	Characterization and mesostructure control of mesoporous fluorinated organosilicate films. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1988		25
161	Spectroscopic ellipsometry and Raman study of fluorinated nanocrystalline carbon thin films. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 813-818	2.5	25
160	Crystallization of Copper Metaphosphate Glass. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 1395-1400	3.4	25
159	Post-Humid Annealing of Low-Temperature Solution-Processed Indium Based Metal Oxide TFTs. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, H303		24
158	Fabrication of transparent methacrylate zirconium siloxane hybrid materials using sol-gel synthesized oligosiloxane resin. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 58, 114-120	2.3	23
157	Synthesis and luminescence properties of mesophase silica thin films doped with in-situ formed europium complex. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 565-572	3.8	23
156	Ultraviolet-nanoimprint of 40 nm scale patterns using functionally modified fluorinated hybrid materials. <i>Nanotechnology</i> , <b>2006</b> , 17, 3319-3324	3.4	22
155	The thermo-optic effect of Si nanocrystals in silicon-rich silicon oxide thin films. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2526-2528	3.4	22
154	Fabrication and Ultraviolet Absorption of Sol-Gel-Derived Germanium Oxide Glass Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2000</b> , 83, 1356-1360	3.8	22
153	Improvement of bias stability of oxyanion-incorporated aqueous sol-gel processed indium zinc oxide TFTs. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5998	7.1	21
152	Network structure-property relationship in UV-cured organic/inorganic hybrid nanocomposites. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 168-174	4.9	21

151	Fabrication of Channel Waveguides by Photochemical Self-Developing in Doped Sol-Gel Hybrid Glass. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 26, 897-901	2.3	21
150	Optical filters fabricated in hybriimer media with soft lithography. <i>Optics Letters</i> , <b>2009</b> , 34, 2510-2	3	20
149	Low adhesive force of fluorinated sol-gel hybrid materials for easy de-moulding in a UV-based nano-imprint process. <i>Nanotechnology</i> , <b>2006</b> , 17, 1212-1216	3.4	20
148	Condensation reaction of 3-(methacryloxypropyl)-trimethoxysilane and diisobutylsilanediol in non-hydrolytic sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2006</b> , 39, 255-260	2.3	20
147	Photochromism in spiropyran impregnated fluorinated mesoporous organosilicate films. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 2503-2509	2.5	20
146	High Photosensitive Sol-Gel Hybrid Materials for Direct Photo-Imprinting of Micro-Optics. <i>Journal of Sol-Gel Science and Technology</i> , <b>2004</b> , 31, 309-315	2.3	20
145	Optically recoverable, deep ultraviolet (UV) stable and transparent sol-gel fluoro siloxane hybrid material for a UV LED encapsulant. <i>RSC Advances</i> , <b>2016</b> , 6, 26826-26834	3.7	19
144	Built-In Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802944	15.6	19
143	High-Performance and Simply-Synthesized Ladder-Like Structured Methacrylate Siloxane Hybrid Material for Flexible Hard Coating. <i>Polymers</i> , <b>2018</b> , 10,	4.5	19
142	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> , <b>2011</b> , 14, H375		19
141	Single-step photopatterning of diffraction. <i>Optics Express</i> , <b>2003</b> , 11, 1144-8	3.3	19
140	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> , <b>2015</b> , 5, 102362-102366	3.7	18
139	Novel ionic iodide-siloxane hybrid electrolyte for dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 293-8	9.5	18
138	Photochemical reactions in fluorinated sol-gel hybrid materials doped with a photolocking agent for direct micropatterning. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1749-1753		18
137	Photobleaching of EGlycidoxypropyltrimethoxysilane-Chelated Metal Alkoxide Gel Films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2000</b> , 19, 607-610	2.3	18
136	Deposition of Fluorinated Amorphous Carbon Thin Films as a Low-Dielectric-Constant Material. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 3383-3388	3.9	17
135	Photo-Patternable Quantum Dots/Siloxane Composite with Long-Term Stability for Quantum Dot Color Filters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3961-3968	9.5	17
134	Highly Conducting In2O3 Nanowire Network with Passivating ZrO2 Thin Film for Solution-Processed Field Effect Transistors. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600218	6.4	17



133	Metal-containing thin-film encapsulation with flexibility and heat transfer. <i>Journal of Information Display</i> , <b>2015</b> , 16, 123-128	4.1	16
132	Exceptionally stable quantum dot/siloxane hybrid encapsulation material for white light-emitting diodes with a wide color gamut. <i>Nanoscale</i> , <b>2019</b> , 11, 14887-14895	7.7	16
131	Thermo-mechanical/thermal properties of photo-cationic polymerized cyclo-aliphatic epoxy hybrid materials. <i>Macromolecular Research</i> , <b>2011</b> , 19, 1166-1171	1.9	16
130	Bias-Temperature-Illumination Stability of Aqueous Solution Processed Fluorine Doped Zinc Tin Oxide (ZTO:F) Transistor. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, H123		16
129	Mechanism and nanosize products of the sol-gel reaction using diphenylsilanediol and 3-methacryloxypropyltrimethoxysilane as precursors. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 9397-4034	3.4	16
128	Direct photofabrication of refractive-index-modulated multimode optical waveguide using photosensitive sol-gel hybrid materials. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 221106	3.4	16
127	Crystallization Behavior of Sol-Gel-Derived Strontium Barium Niobate Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 193-199	3.8	16
126	Glass-Fabric Reinforced Ag Nanowire/Siloxane Composite Heater Substrate: Sub-10 nm Metal@Metal Oxide Nanosheet for Sensitive Flexible Sensing Platform. <i>Small</i> , <b>2018</b> , 14, e1802260	11	16
125	Photocurable transparent cycloaliphatic epoxy hybrid materials crosslinked by oxetane. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, E380-E386	2.9	15
124	Thermowetting embossing nanoimprinting of the organic/inorganic hybrid materials. <i>Thin Solid Films</i> , <b>2005</b> , 476, 181-184	2.2	15
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