

Byeong-Soo Bae

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

258
papers

6,693
citations

44
h-index

66
g-index

277
ext. papers

7,410
ext. citations

5.9
avg, IF

5.99
L-index

#	Paper	IF	Citations
258	Highly transparent and resilient urethane-methacrylate siloxane composite for hard, yet stretchable protective coating. <i>Progress in Organic Coatings</i> , 2022 , 162, 106567	4.8	0
257	Conformation-dependent thermoelectric power factor of multilayer nanocomposites. <i>Applied Surface Science</i> , 2022 , 594, 153483	6.7	1
256	Conformable microneedle pH sensors via the integration of two different siloxane polymers for mapping peripheral artery disease. <i>Science Advances</i> , 2021 , 7, eabi6290	14.3	10
255	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	3.5	6
254	Low-Temperature and High-Quality Growth of BiOSe Layered Semiconductors Cracking Metal-Organic Chemical Vapor Deposition. <i>ACS Nano</i> , 2021 , 15, 8715-8723	16.7	7
253	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	8.6	13
252	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. <i>Advanced Materials</i> , 2021 , 33, e2005255	24	26
251	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. <i>Advanced Functional Materials</i> , 2021 , 31, 2010254	15.6	8
250	Transferable, flexible white light-emitting diodes of GaN p-n junction microcrystals fabricated by remote epitaxy. <i>Nano Energy</i> , 2021 , 86, 106075	17.1	6
249	Elongation improvement of transparent and flexible surface protective coating using polydimethylsiloxane-anchored epoxy-functionalized siloxane hybrid composite for reliable out-foldable displays. <i>Composites Part B: Engineering</i> , 2021 , 225, 109313	10	2
248	Perovskite Nanoparticles: Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years (Adv. Mater. 3/2021). <i>Advanced Materials</i> , 2021 , 33, 2170017	24	
247	Stretchable Printed Circuit Board Based on Leak-Free Liquid Metal Interconnection and Local Strain Control. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
246	Optically Transparent Multiscale Composite Films for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2020 , 32, e1907143	24	34
245	Flexible but Mechanically Robust Hazy Quantum Dot/Glass Fiber Reinforced Film for Efficiently Luminescent Surface Light Source. <i>Advanced Optical Materials</i> , 2020 , 8, 1902178	8.1	6
244	Solution-Processed, Photo-Patternable Fluorinated Sol-Gel Hybrid Materials as a Bio-Fluidic Barrier for Flexible Electronic Systems. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901065	6.4	4
243	Photo-Patternable Quantum Dots/Siloxane Composite with Long-Term Stability for Quantum Dot Color Filters. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3961-3968	9.5	17
242	Flexible Transparent Crystalline-ITO/Ag Nanowire Hybrid Electrode with High Stability for Organic Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56462-56469	9.5	11

241	Siloxane Hybrid Materials: Hierarchically Surface-Textured Ultrastable Hybrid Film for Large-Scale Triboelectric Nanogenerators (Adv. Funct. Mater. 49/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070327	15.6	1
240	Long-Term Stable Microlens Array-Integrated Quantum Dot/Siloxane Film for Thin White Backlight Units. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10261-10269	5.6	1
239	Hierarchically Surface-Textured Ultrastable Hybrid Film for Large-Scale Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2020 , 30, 2005610	15.6	15
238	Facile preparation of wear-resistant and anti-fingerprint hard coating with chemisorption of fluorosilane by simple wet coating. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 95, 447-455	2.3	6
237	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 ¹⁴	9.5	14
236	P-69: Light Absorbing Dye-Doped Siloxane Based Optical Filter Film for Image and IR Sensors. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1492-1494	0.5	
235	53-3: Invited Paper: Out-Foldable Smartphone Will Be Real?: Challenges for Developing Glass-like Cover Plastic Films. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 735-737	0.5	5
234	Siloxane-Encapsulated Upconversion Nanoparticle Hybrid Composite with Highly Stable Photoluminescence against Heat and Moisture. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15952-15959 ⁵	9.5	5
233	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	7.7	16
232	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. <i>Science Advances</i> , 2019 , 5, eaay0764	14.3	67
231	Mechanically improved sol-gel derived methacrylate-siloxane hybrid materials with urethane linkage. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 89, 111-119	2.3	2
230	Wireless powered wearable micro light-emitting diodes. <i>Nano Energy</i> , 2019 , 55, 454-462	17.1	54
229	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	8.5	28
228	Squid pen-inspired chitinous functional materials: Hierarchical chitin fibers by centrifugal jet-spinning and transparent chitin fiber-reinforced composite. <i>APL Materials</i> , 2018 , 6, 016102	5.7	7
227	Effects of plasticizer on structures, non-isothermal crystallization, and rheological properties of polyarylates. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45704	2.9	4
226	Built-In Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). <i>Advanced Functional Materials</i> , 2018 , 28, 1802944	15.6	19
225	High-Performance and Simply-Synthesized Ladder-Like Structured Methacrylate Siloxane Hybrid Material for Flexible Hard Coating. <i>Polymers</i> , 2018 , 10,	4.5	19
224	9-3: Flexible Mutual-capacitive Fingerprint Sensor with Hard and Flexible Overlaid Dielectric Layer for Biometrics Application. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 87-89	0.5	

223	Biomimetic Chitin/Silk Hybrids: An Optically Transparent Structural Platform for Wearable Devices and Advanced Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1705480	15.6	53
222	Transparent Urethane-Siloxane Hybrid Materials for Flexible Cover Windows with Ceramic-Like Strength, yet Polymer-Like Modulus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43122-43130	9.5	13
221	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	11	16
220	P-117: Sol-Gel Derived and Thermally Cured Siloxane Encapsulated Quantum Dot Hybrid Material with Excellent Stabilities. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1651-1653	0.5	
219	Conducting Nanopaper: A Carbon-Free Cathode Platform for LiO ₂ Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 673-680	20.1	27
218	Flexible Coatings: Flexible Hard Coating: Glass-Like Wear Resistant, Yet Plastic-Like Compliant, Transparent Protective Coating for Foldable Displays (Adv. Mater. 19/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
217	Heat- and water-proof quantum dot/siloxane composite film: Effect of quantum dot/siloxane linkage. <i>Journal of the Society for Information Display</i> , 2017 , 25, 108-116	2.1	4
216	32-2: Distinguished Student Paper: Quantum Dot/Siloxane Composite Film Exceptionally Stable Against Heat and Moisture. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 451-454	0.5	2
215	P-134: Flexible Transparent Electrode Film with a Continuous Ag Nanofiber Network Embedded Structure for Flexible OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1761-1764	0.5	
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 & Interfaces</i> , 2017 , 9, 20299-20305	9.5	44
213	P-133: Optimization of Multilayer Inorganic/Organic Thin Film Structure for Foldable Barrier Films. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1757-1760	0.5	1
212	17-2: Invited Paper: Flexible Hard Coating (Flex9H) for Foldable Display Cover Plastic Film. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 215-217	0.5	11
211	12-4: Composition Optimization of Transparent Glass-fabric Reinforced Siloxane Hybrid (GFRHybrimer) Films for Thermally Stable Flexible Display Substrate Film. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 150-152	0.5	4
210	A mechanically enhanced hybrid nano-stratified barrier with a defect suppression mechanism for highly reliable flexible OLEDs. <i>Nanoscale</i> , 2017 , 9, 6370-6379	7.7	34
209	Flexible Hard Coating: Glass-Like Wear Resistant, Yet Plastic-Like Compliant, Transparent Protective Coating for Foldable Displays. <i>Advanced Materials</i> , 2017 , 29, 1700205	24	59
208	Transparent, thermally stable methyl siloxane hybrid materials using sol-gel synthesized vinyl-methyl oligosiloxane resin. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 82, 253-260	2.3	9
207	Bioinspired Transparent Laminated Composite Film for Flexible Green Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24161-24168	9.5	27
206	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	9.5	52

205	High-resolution electrohydrodynamic inkjet printing of stretchable metal oxide semiconductor transistors with high performance. <i>Nanoscale</i> , 2016 , 8, 17113-17121	7.7	73
204	A highly adhesive siloxane LED encapsulant optimized for high thermal stability and optical efficiency. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10791-10796	7.1	14
203	Hybrid crystalline-ITO/metal nanowire mesh transparent electrodes and their application for highly flexible perovskite solar cells. <i>NPG Asia Materials</i> , 2016 , 8, e282-e282	10.3	76
202	Chitin Nanofiber Transparent Paper for Flexible Green Electronics. <i>Advanced Materials</i> , 2016 , 28, 5169-754	7.4	171
201	A high-performance, flexible and robust metal nanotrough-embedded transparent conducting film for wearable touch screen panels. <i>Nanoscale</i> , 2016 , 8, 3916-22	7.7	65
200	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, 8335-40	9.5	34
199	Highly reliable hybrid nano-stratified moisture barrier for encapsulating flexible OLEDs. <i>Organic Electronics</i> , 2016 , 33, 150-155	3.5	43
198	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	3.7	19
197	Enhanced Luminescence Characteristics of Mesophase Silica Thin Films Doped with In-Situ-Formed Rare Earth Complexes. <i>Science of Advanced Materials</i> , 2016 , 8, 122-127	2.3	3
196	Novel microlens arrays with embedded Al ₂ O ₃ nanoparticles for enhancing efficiency and stability of flexible polymer light-emitting diodes. <i>RSC Advances</i> , 2016 , 6, 65450-65458	3.7	13
195	P-96: Heat Transferable Thin Film Encapsulation Inserted Ag Thin Film to Improve Reliability of Flexible Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1491-1494	0.5	3
194	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	16.4	55
193	Highly improved photo-induced bias stability of sandwiched triple layer structure in sol-gel processed fluorine-doped indium zinc oxide thin film transistor. <i>AIP Advances</i> , 2016 , 6, 035315	1.5	0
192	The effect of ITO and Mo electrodes on the properties and stability of In-Ga-Zn-O thin film transistors. <i>Journal of Electroceramics</i> , 2016 , 36, 129-134	1.5	5
191	Reliable thin-film encapsulation of flexible OLEDs and enhancing their bending characteristics through mechanical analysis. <i>RSC Advances</i> , 2016 , 6, 40835-40843	3.7	53
190	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	6.4	17
189	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , 2015 , 11, 3124-9	11	37
188	Metal-containing thin-film encapsulation with flexibility and heat transfer. <i>Journal of Information Display</i> , 2015 , 16, 123-128	4.1	16

187	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	3.7	18
186	350°C processable low-CTE transparent glass-fabric-reinforced hybrimer film for flexible substrates. <i>Journal of Information Display</i> , 2015 , 16, 57-64	4.1	12
185	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, 1035-9	9.5	43
184	Sol-gel derived transparent zirconium-phenyl siloxane hybrid for robust high refractive index LED encapsulant. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3115-21	9.5	43
183	Complementary p- and n-type polymer doping for ambient stable graphene inverter. <i>ACS Nano</i> , 2014 , 8, 650-6	16.7	38
182	Low temperature curable epoxy siloxane hybrid materials for LED encapsulant. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	3
181	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> , 2014 , 8, 10973-9	16.7	145
180	Stretchable and transparent electrodes using hybrid structures of graphene-metal nanotrough networks with high performances and ultimate uniformity. <i>Nano Letters</i> , 2014 , 14, 6322-8	11.5	148
179	Improvement of bias stability of oxyanion-incorporated aqueous sol-gel processed indium zinc oxide TFTs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5998	7.1	21
178	Flexible transparent conducting composite films using a monolithically embedded AgNW electrode with robust performance stability. <i>Nanoscale</i> , 2014 , 6, 711-5	7.7	81
177	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, 15335-43	9.5	46
176	Solution-processed flexible fluorine-doped indium zinc oxide thin-film transistors fabricated on plastic film at low temperature. <i>Scientific Reports</i> , 2013 , 3, 2085	4.9	130
175	The Effect of Metal Composition on Bias Stability of Solution Processed Indium Oxide Based Thin Film Transistors. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, Q200-Q204	2	10
174	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		14
173	High-performance hybrid plastic films: a robust electrode platform for thin-film optoelectronics. <i>Energy and Environmental Science</i> , 2013 , 6, 1811	35.4	78
172	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	2.3	59
171	An aqueous route for the fabrication of low-temperature-processable oxide flexible transparent thin-film transistors on plastic substrates. <i>NPG Asia Materials</i> , 2013 , 5, e45-e45	10.3	183
170	Sol-gel synthesized linear oligosiloxane-based hybrid material for a thermally-resistant light emitting diode (LED) encapsulant. <i>RSC Advances</i> , 2013 , 3, 8871	3.7	28

169	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> , 2013 , 14, 1737-1743	3.5	75
168	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. <i>Organic Electronics</i> , 2013 , 14, 1435-1440	3.5	74
167	Sol-gel derived dye-bridged hybrid materials for white luminescence. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 65, 46-51	2.3	5
166	High Color Rendering White LED Based on Silicate/Dye-Bridged Siloxane Hybrid Phosphor Encapsulant. <i>ECS Transactions</i> , 2013 , 50, 9-15	1	2
165	Simple Aqueous Solution Route for Fabrication High Performance Oxide TFT. <i>ECS Transactions</i> , 2013 , 50, 101-106	1	2
164	High luminescence quantum efficiency of green mesophase silicate thin film incorporated with rare earth complex. <i>Materials Chemistry and Physics</i> , 2012 , 134, 50-53	4.4	3
163	Silica nanoparticle-embedded sol-gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. <i>Organic Electronics</i> , 2012 , 13, 53-57	3.5	63
162	Fabrication of a high thermal-stable methacrylate-silicate hybrid nanocomposite: hydrolytic versus non-hydrolytic sol-gel synthesis of methacryl-oligosiloxanes. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 61, 321-327	2.3	12
161	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		60
160	High color rendering white light-emitting diodes based on a green silicate phosphor mixed with a red dye-bridged hybrid. <i>RSC Advances</i> , 2012 , 2, 12371	3.7	5
159	P-68: Distinguished Student Poster Paper: Dye-Bridged Hybrid Materials for Robust and High-Performance Wavelength Converter of White LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 1314-1317	0.5	1
158	A quasi-solid-state dye-sensitized solar cell based on sol-gel derived in situ gelation of a siloxane hybrid electrolyte. <i>RSC Advances</i> , 2012 , 2, 5524	3.7	12
157	Thermally resistant UV-curable epoxy/siloxane hybrid materials for light emitting diode (LED) encapsulation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8874		59
156	Fabrication of high-density In(3)Sb(1)Te(2) phase change nanoarray on glass-fabric reinforced flexible substrate. <i>Nanotechnology</i> , 2012 , 23, 255301	3.4	6
155	Photocurable transparent cycloaliphatic epoxy hybrid materials crosslinked by oxetane. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E380-E386	2.9	15
154	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		16
153	Low-temperature aqueous solution processed fluorine-doped zinc tin oxide thin-film transistors. <i>MRS Communications</i> , 2012 , 2, 17-22	2.7	12
152	Effects of the oxygen vacancy concentration in InGaZnO-based resistance random access memory. <i>Applied Physics Letters</i> , 2012 , 101, 243503	3.4	47

151	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		47
150	Photo-Curable Sol-Gel Hybrid Film as a Dielectric Layer by a Thiol-ene Reaction in Air or N ₂ for Organic Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, G13		5
149	Direct stamping of silver nanoparticles toward residue-free thick electrode. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 035004	7.1	31
148	Network structure-property relationship in UV-cured organic/inorganic hybrid nanocomposites. <i>Polymer Chemistry</i> , 2011 , 2, 168-174	4.9	21
147	Novel ionic iodide-siloxane hybrid electrolyte for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 293-8	9.5	18
146	Fabrication of transparent methacrylate zirconium siloxane hybrid materials using sol-gel synthesized oligosiloxane resin. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 114-120	2.3	23
145	Enhancement of fluorescence and lasing properties of covalent bridged fluorescent dye in organic-inorganic hybrid materials. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 60, 137-143	2.3	8
144	Thermo-mechanical/thermal properties of photo-cationic polymerized cyclo-aliphatic epoxy hybrid materials. <i>Macromolecular Research</i> , 2011 , 19, 1166-1171	1.9	16
143	Thermally stable, dye-bridged nanohybrid-based white light-emitting diodes. <i>Advanced Materials</i> , 2011 , 23, 5767-72	24	50
142	A Simple and Highly Efficient Method for Surface Treatment of Ti Substrates for Use in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 337-342	21.8	33
141	Cycloaliphatic epoxy oligosiloxane-derived hybrid materials for a high-refractive index LED encapsulant. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2478-2485	2.9	35
140	Photo-curable siloxane hybrid material fabricated by a thiol-ene reaction of sol-gel synthesized oligosiloxanes. <i>Chemical Communications</i> , 2011 , 47, 6051-3	5.8	25
139	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		40
138	High performance organic-inorganic hybrid barrier coating for encapsulation of OLEDs. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1977-1983		76
137	Improved negative bias illumination instability of sol-gel gallium zinc tin oxide thin film transistors. <i>Applied Physics Letters</i> , 2011 , 99, 152102	3.4	27
136	The encapsulation of an organic light-emitting diode using organic-inorganic hybrid materials and MgO. <i>Organic Electronics</i> , 2011 , 12, 609-613	3.5	54
135	Post-Humid Annealing of Low-Temperature Solution-Processed Indium Based Metal Oxide TFTs. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, H303		24
134	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		19

133	Fabrication and characterization of sol-gel-derived zinc oxide thin-film transistor. <i>Journal of Materials Research</i> , 2010 , 25, 695-700	2.5	35
132	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, 212109	3.4	39
131	Postannealing Process for Low Temperature Processed Sol-Gel Zinc Tin Oxide Thin Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H357		56
130	Highly condensed fluorinated methacrylate hybrid material for transparent low-kappa passivation layer in LCD-TFT. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 913-8	9.5	29
129	Thermally Stable Transparent Sol-Gel Based Siloxane Hybrid Material with High Refractive Index for Light Emitting Diode (LED) Encapsulation. <i>Chemistry of Materials</i> , 2010 , 22, 3549-3555	9.6	156
128	Flexible amorphous silicon solar cells on glass-fabric reinforced composite films in the superstrate configuration 2010 ,		1
127	Synthesis of well dispersed uniform sub-4 nm Y ₂ O ₃ :Eu ³⁺ colloidal nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2036-9	1.3	4
126	Thermal stability of sol-gel derived methacrylate oligosiloxane-based hybrids for LED encapsulants. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 53, 434-440	2.3	30
125	Rollable transparent glass-fabric reinforced composite substrate for flexible devices. <i>Advanced Materials</i> , 2010 , 22, 4510-5	24	63
124	Thermal resistance of cycloaliphatic epoxy hybrimer based on sol-gel derived oligosiloxane for LED encapsulation. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2140-2145	2.9	29
123	Effect of Surface Energy on Pentacene Growth and Characteristics of Organic Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, G37		46
122	Synthesis and characterization of nano-sized epoxy oligosiloxanes for fabrication of transparent nano hybrid materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 756-763	2.6	12
121	Highly condensed epoxy-oligosiloxane-based hybrid material for transparent low-k dielectric coatings. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1585-90	9.5	25
120	Organic-Inorganic hybrid gate dielectrics for low-voltage pentacene organic thin film transistors. <i>Synthetic Metals</i> , 2009 , 159, 1288-1291	3.6	13
119	Optical filters fabricated in hybrimer media with soft lithography. <i>Optics Letters</i> , 2009 , 34, 2510-2	3	20
118	Self-assembled SiO ₂ photonic crystal infiltrated by Ormosil:Eu(DBM)(3)phen phosphor and its enhanced photoluminescence. <i>Optics Express</i> , 2009 , 17, 3732-40	3.3	12
117	Solution-Processed, High Performance Aluminum Indium Oxide Thin-Film Transistors Fabricated at Low Temperature. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, H336		40
116	High performance solution-processed amorphous zinc tin oxide thin film transistor. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 035106	3	202

115	Highly Photosensitive Sol-Gel Hybrid Nano Materials for Direct Photo-Fabrication of Micro-Optical Elements 2009 , 587-651		1
114	Effect of increased surface area of stainless steel substrates on the efficiency of dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2008 , 93, 1333-11	3.4	56
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