C-S Lee

List of Publications by Citations

990 papers	49,048 citations	111 h-index	169 g-index
1,035 ext. papers	55,000 ext. citations	7.8 avg, IF	7.71 L-index

#	Paper	IF	Citations
990	Small-diameter silicon nanowire surfaces. *Science*, **2003**, 299, 1874-7	33.3	1024
989	A graphene quantum dot photodynamic therapy agent with high singlet oxygen generation. *Nature Communications*, **2014**, 5, 4596	17.4	946
988	High-Density, Ordered Ultraviolet Light-Emitting ZnO Nanowire Arrays. *Advanced Materials*, **2003**, 15, 838-841	24	566
987	A Novel Aluminum‐Graphite Dual-Ion Battery. *Advanced Energy Materials*, **2016**, 6, 1502588	21.8	513
986	Formation of silicon carbide nanotubes and nanowires via reaction of silicon (from disproportionation of silicon monoxide) with carbon nanotubes. *Journal of the American Chemical Society*, **2002**, 124, 14464-71	16.4	482
985	Silicon nanowires prepared by laser ablation at high temperature. *Applied Physics Letters*, **1998**, 72, 1835-1837	3.4	473
984	Oriented Silicon Carbide Nanowires: Synthesis and Field Emission Properties. *Advanced Materials*, **2000**, 12, 1186-1190	24	456
983	Incorporation of graphenes in nanostructured TiO(2) films via molecular grafting for dye-sensitized solar cell application. *ACS Nano*, **2010**, 4, 3482-8	16.7	431
982	Green Synthesis of Bifunctional Fluorescent Carbon Dots from Garlic for Cellular Imaging and Free Radical Scavenging. *ACS Applied Materials & Interfaces*, **2015**, 7, 17054-60	9.5	352
981	Large-Scale Rapid Oxidation Synthesis of SnO2 Nanoribbons. *Journal of Physical Chemistry B*, **2002**, 106, 3823-3826	3.4	343
980	Photosensitizers for Photodynamic Therapy. *Advanced Healthcare Materials*, **2019**, 8, e1900132	10.1	324
979	Nickel-Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An All-pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1606521	24	301
978	High Efficiency Nondoped Deep-Blue Organic Light Emitting Devices Based on Imidazole-Triphenylamine Derivatives. *Chemistry of Materials*, **2012**, 24, 61-70	9.6	291
977	Thermal Reduction Route to the Fabrication of Coaxial Zn/ZnO Nanocables and ZnO Nanotubes. *Chemistry of Materials*, **2003**, 15, 305-308	9.6	286
976	Nucleation and growth of Si nanowires from silicon oxide. *Physical Review B*, **1998**, 58, R16024-R16026	3.3	282
975	Vertically aligned p-type single-crystalline GaN nanorod arrays on n-type Si for heterojunction photovoltaic cells. *Nano Letters*, **2008**, 8, 4191-5	11.5	279
974	Hierarchical nanotubes assembled from MoS 2 -carbon monolayer sandwiched superstructure nanosheets for high-performance sodium ion batteries. *Nano Energy*, **2016**, 22, 27-37	17.1	278

973	One-dimensional II-VI nanostructures: Synthesis, properties and optoelectronic applications. *Nano Today*, **2010**, 5, 313-336	17.9	261
972	Highly Efficient Non-Doped Blue Organic Light-Emitting Diodes Based on Fluorene Derivatives with High Thermal Stability. *Advanced Functional Materials*, **2005**, 15, 1716-1721	15.6	261
971	Synthesis of Uniform Hexagonal Prismatic ZnO Whiskers. *Chemistry of Materials*, **2002**, 14, 1216-1219	9.6	260
970	Hydrogen-Assisted Thermal Evaporation Synthesis of ZnS Nanoribbons on a Large Scale. *Advanced Materials*, **2003**, 15, 323-327	24	257
969	Well-Aligned ZnO Nanowire Arrays Fabricated on Silicon Substrates. *Advanced Functional Materials*, **2004**, 14, 589-594	15.6	255
968	Prediction and design of efficient exciplex emitters for high-efficiency, thermally activated delayed-fluorescence organic light-emitting diodes. *Advanced Materials*, **2015**, 27, 2378-83	24	250
967	Si nanowires grown from silicon oxide. *Chemical Physics Letters*, **1999**, 299, 237-242	2.5	246
966	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 806-810	16.4	245
965	p-Type ZnO nanowire arrays. *Nano Letters*, **2008**, 8, 2591-7	11.5	223
964	Remanagement of Singlet and Triplet Excitons in Single-Emissive-Layer Hybrid White Organic Light-Emitting Devices Using Thermally Activated Delayed Fluorescent Blue Exciplex. *Advanced Materials*, **2015**, 27, 7079-85	24	218
963	Management of singlet and triplet excitons in a single emission layer: a simple approach for a high-efficiency fluorescence/phosphorescence hybrid white organic light-emitting device. *Advanced Materials*, **2012**, 24, 3410-4	24	215
962	2D Perovskites with Short Interlayer Distance for High-Performance Solar Cell Application. *Advanced Materials*, **2018**, 30, e1800710	24	214
961	Interlayer Nanoarchitectonics of Two-Dimensional Transition-Metal Dichalcogenides Nanosheets for Energy Storage and Conversion Applications. *Advanced Energy Materials*, **2017**, 7, 1700571	21.8	209
960	Tunable band gaps and p-type transport properties of boron-doped graphenes by controllable ion doping using reactive microwave plasma. *ACS Nano*, **2012**, 6, 1970-8	16.7	206
959	Silicon nanowires as chemical sensors. *Chemical Physics Letters*, **2003**, 369, 220-224	2.5	205
958	Enhanced efficiency of polymer solar cells by adding a high-mobility conjugated polymer. *Energy and Environmental Science*, **2015**, 8, 1463-1470	35.4	204
957	Novel efficient blue fluorophors with small singlet-triplet splitting: hosts for highly efficient fluorescence and phosphorescence hybrid WOLEDs with simplified structure. *Advanced Materials*, **2013**, 25, 2205-11	24	197
956	Synthesis of boron nitride nanotubes by means of excimer laser ablation at high temperature. *Applied Physics Letters*, **1998**, 72, 1966-1968	3.4	194

955	A High Tg Carbazole-Based Hole-Transporting Material for Organic Light-Emitting Devices. *Chemistry of Materials*, **2005**, 17, 1208-1212	9.6	191
954	Nearly 100% triplet harvesting in conventional fluorescent dopant-based organic light-emitting devices through energy transfer from exciplex. *Advanced Materials*, **2015**, 27, 2025-30	24	189
953	Wavelength-Controlled Lasing in Zn Cd S Single-Crystal Nanoribbons. *Advanced Materials*, **2005**, 17, 1372-1377	24	188
952	Bipolar Phenanthroimidazole Derivatives Containing Bulky Polyaromatic Hydrocarbons for Nondoped Blue Electroluminescence Devices with High Efficiency and Low Efficiency Roll-Off. *Chemistry of Materials*, **2013**, 25, 4957-4965	9.6	186
951	Tunable n-Type Conductivity and Transport Properties of Ga-doped ZnO Nanowire Arrays. *Advanced Materials*, **2008**, 20, 168-173	24	186
950	Field-emission characteristics of SiC nanowires prepared by chemical-vapor deposition. *Applied Physics Letters*, **1999**, 75, 2918-2920	3.4	186
949	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. *Journal of the American Chemical Society*, **2020**, 142, 20134-20142	16.4	185
948	Aligned and Graded Type-II Ruddlesden–Popper Perovskite Films for Efficient Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800185	21.8	184
947	Cu2ZnSnS4 Hierarchical Microspheres as an Effective Counter Electrode Material for Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 19718-19723	3.8	181
946	Laser Ablation Synthesis and Optical Characterization of Silicon Carbide Nanowires. *Journal of the American Ceramic Society*, **2000**, 83, 3228-3230	3.8	181
945	A Family of Electroluminescent Silyl-Substituted Poly(p-phenylenevinylene)s: Synthesis, Characterization, and Structure–Property Relationships. *Macromolecules*, **2000**, 33, 9015-9025	5.5	181
944	SiO2-enhanced synthesis of Si nanowires by laser ablation. *Applied Physics Letters*, **1998**, 73, 3902-3904	3.4	181
943	Single-crystal nanoribbons, nanotubes, and nanowires from intramolecular charge-transfer organic molecules. *Journal of the American Chemical Society*, **2007**, 129, 3527-32	16.4	179
942	ZnO/Au Composite Nanoarrays As Substrates for Surface-Enhanced Raman Scattering Detection. *Journal of Physical Chemistry C*, **2010**, 114, 93-100	3.8	176
941	Reduction of Self-Quenching Effect in Organic Electrophosphorescence Emitting Devices via the Use of Sterically Hindered Spacers in Phosphorescence Molecules. *Advanced Materials*, **2001**, 13, 1245	24	176
940	Synthesis of Large Areas of Highly Oriented, Very Long Silicon Nanowires. *Advanced Materials*, **2000**, 12, 1343-1345	24	175
939	Arrays of ZnO/Zn(x)Cd(1-x)Se nanocables: band gap engineering and photovoltaic applications. *Nano Letters*, **2011**, 11, 4138-43	11.5	172
938	ZnO Nanotube Arrays as Biosensors for Glucose. *Journal of Physical Chemistry C*, **2009**, 113, 20169-20172	3.8	171

937	Two-photon-excited near-infrared emissive carbon dots as multifunctional agents for fluorescence imaging and photothermal therapy. *Nano Research*, **2017**, 10, 3113-3123	10	170
936	ZnS Nanowires with Wurtzite Polytype Modulated Structure. *Advanced Materials*, **2003**, 15, 1195-1198	24	169
935	Bright-blue electroluminescence from a silyl-substituted ter-(phenylene□inylene) derivative. *Applied Physics Letters*, **1999**, 74, 865-867	3.4	169
934	Carbazole/Sulfone Hybrid D-□A-Structured Bipolar Fluorophores for High-Efficiency Blue-Violet Electroluminescence. *Chemistry of Materials*, **2013**, 25, 2630-2637	9.6	167
933	Controlled synthesis of oriented single-crystal ZnO nanotube arrays on transparent conductive substrates. *Applied Physics Letters*, **2008**, 92, 053111	3.4	167
932	Hierarchical composite structure of few-layers MoS2 nanosheets supported by vertical graphene on carbon cloth for high-performance hydrogen evolution reaction. *Nano Energy*, **2015**, 18, 196-204	17.1	163
931	Germanium nanowires sheathed with an oxide layer. *Physical Review B*, **2000**, 61, 4518-4521	3.3	162
930	Surface-Dominated Transport Properties of Silicon Nanowires. *Advanced Functional Materials*, **2008**, 18, 3251-3257	15.6	161
929	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. *Advanced Materials*, **2018**, 30, e1803144	24	160
928	Vertically Aligned ZnO Nanorod Arrays Sentisized with Gold Nanoparticles for Schottky Barrier Photovoltaic Cells. *Journal of Physical Chemistry C*, **2009**, 113, 13433-13437	3.8	160
927	Efficient organic photovoltaic devices using a combination of exciton blocking layer and anodic buffer layer. *Journal of Applied Physics*, **2006**, 100, 094506	2.5	159
926	Synthesis of nano-scale silicon wires by excimer laser ablation at high temperature. *Solid State Communications*, **1998**, 105, 403-407	1.6	158
925	Ultrahigh Nitrogen Doping of Carbon Nanosheets for High Capacity and Long Cycling Potassium Ion Storage. *Advanced Energy Materials*, **2019**, 9, 1902672	21.8	158
924	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. *Advanced Functional Materials*, **2016**, 26, 864-871	15.6	157
923	□-SiC nanorods synthesized by hot filament chemical vapor deposition. *Applied Physics Letters*, **1999**, 74, 3942-3944	3.4	156
922	White-Light Emission from a Single-Emitting-Component Organic Electroluminescent Device. *Advanced Materials*, **2004**, 16, 1538-1541	24	155
921	Biocompatible D-A Semiconducting Polymer Nanoparticle with Light-Harvesting Unit for Highly Effective Photoacoustic Imaging Guided Photothermal Therapy. *Advanced Functional Materials*, **2017**, 27, 1605094	15.6	152
920	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. *Angewandte Chemie - International Edition*, **2019**, 58, 14660-14665	16.4	149

919	Zinc Selenide Nanoribbons and Nanowires. *Journal of Physical Chemistry B*, **2004**, 108, 2784-2787	3.4	149
918	Novel Strategy to Develop Exciplex Emitters for High-Performance OLEDs by Employing Thermally Activated Delayed Fluorescence Materials. *Advanced Functional Materials*, **2016**, 26, 2002-2008	15.6	149
917	Three-dimensional-networked NiCo2S4 nanosheet array/carbon cloth anodes for high-performance lithium-ion batteries. *NPG Asia Materials*, **2015**, 7, e195-e195	10.3	147
916	Multifunctional electron-transporting indolizine derivatives for highly efficient blue fluorescence, orange phosphorescence host and two-color based white OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 4502		147
915	Avoiding Energy Loss on TADF Emitters: Controlling the Dual Conformations of D-A Structure Molecules Based on the Pseudoplanar Segments. *Advanced Materials*, **2017**, 29, 1701476	24	142
914	A bis-salicylaldiminato Schiff base and its zinc complex as new highly fluorescent red dopants for high performance organic electroluminescence devices. *Chemical Communications*, **2003**, 1664-1665	5.8	141
913	Graphitic carbon nitride nanosheet@metal-organic framework core-shell nanoparticles for photo-chemo combination therapy. *Nanoscale*, **2015**, 7, 17299-305	7.7	140
912	A General Synthetic Route to III-V Compound Semiconductor Nanowires. *Advanced Materials*, **2001**, 13, 591-594	24	140
911	Synthesis of 1T-MoSe2 ultrathin nanosheets with an expanded interlayer spacing of 1.17 nm for efficient hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 14949-14953	13	138
910	Doping-induced efficiency enhancement in organic photovoltaic devices. *Applied Physics Letters*, **2007**, 90, 023504	3.4	138
909	Free-standing single crystal silicon nanoribbons. *Journal of the American Chemical Society*, **2001**, 123, 11095-6	16.4	137
908	Bimetallic PtPd nanoparticles on Nafion□raphene film as catalyst for ethanol electro-oxidation. *Journal of Materials Chemistry*, **2012**, 22, 8057		134
907	A New Family of Red Dopants Based on Chromene-Containing Compounds for Organic Electroluminescent Devices. *Chemistry of Materials*, **2001**, 13, 1565-1569	9.6	133
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905	Surface engineering of ZnO nanostructures for semiconductor-sensitized solar cells. *Advanced Materials*, **2014**, 26, 5337-67	24	131
904	Carbon nanoparticle-based ratiometric fluorescent sensor for detecting mercury ions in aqueous media and living cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 21270-8	9.5	131
903	Electrical properties of zinc oxide nanowires and intramolecular p□ junctions. *Applied Physics Letters*, **2003**, 83, 3168-3170	3.4	131
902	Self-Monitoring and Self-Delivery of Photosensitizer-Doped Nanoparticles for Highly Effective Combination Cancer Therapy in Vitro and in Vivo. *ACS Nano*, **2015**, 9, 9741-56	16.7	129

901	Blue-emitting organic electrofluorescence materials: progress and prospective. *Journal of Materials Chemistry C*, **2015**, 3, 10957-10963	7.1	128
900	Semiconductor nanowires from oxides. *Journal of Materials Research*, **1999**, 14, 4503-4507	2.5	128
899	In situ incorporation of FeS nanoparticles/carbon nanosheets composite with an interconnected porous structure as a high-performance anode for lithium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 3697-3703	13	125
898	Uniform carbon nanoflake films and their field emissions. *Chemical Physics Letters*, **2002**, 358, 187-191	2.5	125
897	Core-shell Si/C nanospheres embedded in bubble sheet-like carbon film with enhanced performance as lithium ion battery anodes. *Small*, **2015**, 11, 1345-51	11	122
896	Single-crystal organic microtubes with a rectangular cross section. *Angewandte Chemie - International Edition*, **2007**, 46, 1525-8	16.4	121
895	Manipulation of Molecular Aggregation States to Realize Polymorphism, AIE, MCL, and TADF in a Single Molecule. *Angewandte Chemie - International Edition*, **2018**, 57, 12473-12477	16.4	119
894	Porous CuCo2O4 nanocubes wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. *Nanoscale*, **2014**, 6, 6551-6	7.7	119
893	Pyrite FeS2 microspheres wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2015**, 3, 7945-7949	13	119
892	Low-Cost Metallic Anode Materials for High Performance Rechargeable Batteries. *Advanced Energy Materials*, **2017**, 7, 1700536	21.8	118
891	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. *Chemical Physics Letters*, **2000**, 327, 263-270	2.5	117
890	Approaching the ideal elastic strain limit in silicon nanowires. *Science Advances*, **2016**, 2, e1501382	14.3	116
889	Improved performance of electroluminescent devices based on an europium complex. *Applied Physics Letters*, **2000**, 76, 67-69	3.4	116
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887	Graphene sheets via microwave chemical vapor deposition. *Chemical Physics Letters*, **2009**, 467, 361-364	2.5	114
886	Highly Efficient Nondoped Blue Organic Light-Emitting Diodes Based on Anthracene-Triphenylamine Derivatives. *Journal of Physical Chemistry C*, **2008**, 112, 14603-14606	3.8	114
885	Achieving efficient violet-blue electroluminescence with CIE 6% from naphthyl-linked phenanthroimidazole-carbazole hybrid fluorophores. *Chemical Science*, **2017**, 8, 3599-3608	9.4	113
884	Semiconductor nanowires: synthesis, structure and properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 286, 16-23	5.3	113

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877	Mechanism of Ethanol Reforming: Theoretical Foundations. *Journal of Physical Chemistry C*, **2009**, 113, 6681-6688	3.8	109
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875	Highly efficient non-doped deep-blue organic light-emitting diodes based on anthracene derivatives. *Journal of Materials Chemistry*, **2010**, 20, 1560		108
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870	Iron(II) molybdate (FeMoO4) nanorods as a high-performance anode for lithium ion batteries: structural and chemical evolution upon cycling. *Journal of Materials Chemistry A*, **2015**, 3, 20527-20534	13	106
869	Graphene-Nanowall-Decorated Carbon Felt with Excellent Electrochemical Activity Toward VO/VO Couple for All Vanadium Redox Flow Battery. *Advanced Science*, **2016**, 3, 1500276	13.6	106
868	Bipolar Molecule as an Excellent Hole-Transporter for Organic-Light Emitting Devices. *Chemistry of Materials*, **2009**, 21, 1284-1287	9.6	105
867	Thin □-SiC nanorods and their field emission properties. *Chemical Physics Letters*, **2000**, 318, 58-62	2.5	105
866	Biodegradable □Conjugated Oligomer Nanoparticles with High Photothermal Conversion Efficiency for Cancer Theranostics. *ACS Nano*, **2019**, 13, 12901-12911	16.7	104

865	Ruthenium(II) Complex Incorporated UiO-67 Metal-Organic Framework Nanoparticles for Enhanced Two-Photon Fluorescence Imaging and Photodynamic Cancer Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 5699-5708	9.5	103
864	Characterization of zinc oxide crystal whiskers grown by thermal evaporation. *Chemical Physics Letters*, **2001**, 344, 97-100	2.5	103
863	Chlorine Incorporation for Enhanced Performance of Planar Perovskite Solar Cell Based on Lead Acetate Precursor. *ACS Applied Materials & Interfaces*, **2015**, 7, 23110-6	9.5	102
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861	High-quality CdS nanoribbons with lasing cavity. *Applied Physics Letters*, **2004**, 85, 3241-3243	3.4	102
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859	Photoconductivity of a Single Small-Molecule Organic Nanowire. *Advanced Materials*, **2008**, 20, 2427-2432	24	101
858	Transmission electron microscopy evidence of the defect structure in Si nanowires synthesized by laser ablation. *Chemical Physics Letters*, **1998**, 283, 368-372	2.5	100
857	Copper substituted P2-type Na0.67CuxMn1□O2: a stable high-power sodium-ion battery cathode. *Journal of Materials Chemistry A*, **2015**, 3, 22846-22852	13	99
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852	Unconventional Nickel Nitride Enriched with Nitrogen Vacancies as a High-Efficiency Electrocatalyst for Hydrogen Evolution. *Advanced Science*, **2018**, 5, 1800406	13.6	97
851	On the origin of cube texture in copper. *Acta Metallurgica Et Materialia*, **1993**, 41, 1921-1927		96
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836	Polyhedral organic microcrystals: from cubes to rhombic dodecahedra. *Angewandte Chemie - International Edition*, **2009**, 48, 9121-3	16.4	91
835	Fabrication of Germanium-Filled Silica Nanotubes and Aligned Silica Nanofibers. *Advanced Materials* , **2003**, 15, 70-73	24	91
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832	Strong Luminescent Iridium Complexes with C□N=N Structure in Ligands and Their Potential in Efficient and Thermally Stable Phosphorescent OLEDs. *Advanced Materials*, **2009**, 21, 339-343	24	90
831	A theory of deformation banding in cold rolling. *Acta Metallurgica Et Materialia*, **1993**, 41, 2265-2270		90
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