

S Ravi P Silva

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.

546
papers

17,286
citations

64
h-index

107
g-index

604
ext. papers

19,102
ext. citations

5.8
avg, IF

6.77
L-index

#	Paper	IF	Citations
546	A route towards metal-free electrical cables via carbon nanotube wires. <i>Carbon Trends</i> , 2022 , 7, 100159 ○		
545	Wearable Triboelectric Nanogenerator from Waste Materials for Autonomous Information Transmission Morse Code.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	7
544	Emerging Bioelectronic Strategies for Cardiovascular Tissue Engineering and Implantation.. <i>Small</i> , 2022 , e2105281	11	3
543	A route towards the fabrication of large-scale and high-quality perovskite films for optoelectronic devices.. <i>Scientific Reports</i> , 2022 , 12, 7411	4.9	0
542	Thapsigargin blocks electromagnetic field-elicited intracellular Ca increase in HEK 293 cells.. <i>Physiological Reports</i> , 2022 , 10, e15189	2.6	1
541	Resonant quenching of photoluminescence in porphyrin-nanocarbon agglomerates. <i>Cell Reports Physical Science</i> , 2022 , 100916	6.1	0
540	Understanding the bonding mechanisms of organic molecules deposited on graphene for biosensing applications. <i>Journal of Chemical Physics</i> , 2021 , 155, 174703	3.9	0
539	Molecular Weight Tuning of Organic Semiconductors for Curved Organic-Inorganic Hybrid X-Ray Detectors. <i>Advanced Science</i> , 2021 , e2101746	13.6	4
538	High-efficiency planar heterojunction perovskite solar cell produced by using 4-morpholine ethane sulfonic acid sodium salt doped SnO. <i>Journal of Colloid and Interface Science</i> , 2021 , 609, 547-547	9.3	1
537	Lithium-Sulfur Batteries Meet Electrospinning: Recent Advances and the Key Parameters for High Gravimetric and Volume Energy Density. <i>Advanced Science</i> , 2021 , e2103879	13.6	23
536	Exploring the underlying kinetics of electrodeposited PANI-CNT composite using distribution of relaxation times. <i>Electrochimica Acta</i> , 2021 , 401, 139501	6.7	0
535	Stable Hollow-Structured Silicon Suboxide-Based Anodes toward High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101796	15.6	32
534	High-Performance Planar Heterojunction Perovskite Solar Cells Based on BaCl ₂ Additive and Power Conversion Efficiency of Over 21%. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100165	6.4	2
533	Natural silk-composite enabled versatile robust triboelectric nanogenerators for smart applications. <i>Nano Energy</i> , 2021 , 83, 105819	17.1	14
532	Layer-by-Layer Growth of Graphene Sheets over Selected Areas for Semiconductor Device Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5211-5219	5.6	
531	Solvent Engineering as a Vehicle for High Quality Thin Films of Perovskites and Their Device Fabrication. <i>Small</i> , 2021 , 17, e2008145	11	14
530	Effects of electromagnetic fields on neuronal ion channels: a systematic review. <i>Annals of the New York Academy of Sciences</i> , 2021 , 1499, 82-103	6.5	1

529	Increasing the robustness and crack resistivity of high-performance carbon fiber composites for space applications. <i>IScience</i> , 2021 , 24, 102692	6.1	3
528	A flexible metallic TiC nanofiber/vertical graphene 1D/2D heterostructured as active electrocatalyst for advanced LiB batteries. <i>Information Materials</i> , 2021 , 3, 790-803	23.1	57
527	High-Performance ITO-Free Perovskite Solar Cells Enabled by Single-Walled Carbon Nanotube Films. <i>Advanced Functional Materials</i> , 2021 , 31, 2104396	15.6	11
526	Ultra-Low Dark Current Organic-Inorganic Hybrid X-Ray Detectors. <i>Advanced Functional Materials</i> , 2021 , 31, 2008482	15.6	3
525	Versatile Thin-Film Transistor with Independent Control of Charge Injection and Transport for Mixed Signal and Analog Computation. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000199	6	10
524	The role of surface stoichiometry in NO gas sensing using single and multiple nanobelts of tin oxide. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9733-9742	3.6	2
523	Influence of A site cation on nonlinear band gap dependence of 2D Ruddlesden-Popper $A_2Pb_{1-x}Sn_xI_4$ perovskites. <i>Materials Advances</i> , 2021 , 2, 5254-5261	3.3	0
522	Nonlinear Band Gap Dependence of Mixed Pb-Sn 2D Ruddlesden-Popper $PEAPb_{1-x}Sn_xI_4$ Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1501-1506	6.4	4
521	Complete Atomic Oxygen and UV Protection for Polymer and Composite Materials in a Low Earth Orbit. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6670-6677	9.5	5
520	Controlling the macroscopic electrical properties of reduced graphene oxide by nanoscale writing of electronic channels. <i>Nanotechnology</i> , 2021 , 32, 175202	3.4	1
519	Flexible carbon nanofiber film with diatomic Fe-Co sites for efficient oxygen reduction and evolution reactions in wearable zinc-air batteries. <i>Nano Energy</i> , 2021 , 87, 106147	17.1	26
518	The Road to Net Zero: A Case Study of Innovative Technologies and Policy Changes Used at a Medium-Sized University to Achieve Czero by 2030. <i>Sustainability</i> , 2021 , 13, 9954	3.6	1
517	Supercapacitor electrode with high charge density based on boron-doped porous carbon derived from covalent organic frameworks. <i>Carbon</i> , 2021 , 184, 418-425	10.4	6
516	Quantum Biology: An Update and Perspective. <i>Quantum Reports</i> , 2021 , 3, 80-126	2.1	26
515	Nanocarbons for emerging photovoltaic applications 2021 , 49-80		
514	A synergistic Cs_2CO_3 ETL treatment to incorporate Cs cation into perovskite solar cells via two-step scalable fabrication. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4367-4377	7.1	5
513	Exceptional rate capability from carbon-encapsulated polyaniline supercapacitor electrodes. <i>Energy and Environmental Materials</i> , 2020 , 3, 389-397	13	22
512	Exploring the theoretical and experimental optimization of high-performance triboelectric nanogenerators using microarchitected silk cocoon films. <i>Nano Energy</i> , 2020 , 74, 104882	17.1	27

511	Electrochemical supercapacitors based on 3D nanocomposites of reduced graphene oxide/carbon nanotube and ZnS. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155408	5.7	10
510	Critical review of recent progress of flexible perovskite solar cells. <i>Materials Today</i> , 2020 , 39, 66-88	21.8	70
509	Low-Cost Catalyst Ink for Simple Patterning and Growth of High-Quality Single- and Double-Walled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11898-11906	9.5	1
508	Interaction of ZnO nanorods with plasmonic metal nanoparticles and semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2020 , 152, 064704	3.9	5
507	Integrated Carbon-Fiber-Reinforced Plastic Microstrip Patch Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 606-610	3.8	2
506	Determining the Level and Location of Functional Groups on Few-Layer Graphene and Their Effect on the Mechanical Properties of Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13481-13493	9.5	19
505	Tailoring Perovskite Adjacent Interfaces by Conjugated Polyelectrolyte for Stable and Efficient Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000060	7.1	14
504	Recent progress in silver nanowire networks for flexible organic electronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4636-4674	7.1	66
503	Vertically aligned graphene nanosheets on multi-yolk/shell structured TiC@C nanofibers for stable LiB batteries. <i>Energy Storage Materials</i> , 2020 , 27, 159-168	19.4	73
502	Hot carriers in mixed Pb-Sn halide perovskite semiconductors cool slowly while retaining their electrical mobility. <i>Physical Review B</i> , 2020 , 102,	3.3	4
501	Phonon transport probed at carbon nanotube yarn/sheet boundaries by ultrafast structural dynamics. <i>Carbon</i> , 2020 , 170, 165-173	10.4	3
500	Approaching the Shockley-Queisser limit for fill factors in lead-in mixed perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 693-705	13	21
499	Dimensionally and environmentally ultra-stable polymer composites reinforced with carbon fibres. <i>Nature Materials</i> , 2020 , 19, 317-322	27	24
498	Interface passivation and electron transport improvement via employing calcium fluoride for polymer solar cells. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 142-148	9.3	4
497	Low temperature growth of carbon nanotubes [A review]. <i>Carbon</i> , 2020 , 158, 24-44	10.4	39
496	Hybrid Multipixel Array X-Ray Detectors for Real-Time Direct Detection of Hard X-Rays. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 2238-2245	1.7	3
495	Reduced bilateral recombination by functional molecular interface engineering for efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2020 , 78, 105249	17.1	27
494	Compact Source-Gated Transistor Analog Circuits for Ubiquitous Sensors. <i>IEEE Sensors Journal</i> , 2020 , 20, 14903-14913	4	11

493	Direct Growth of Vertically Aligned Carbon Nanotubes onto Transparent Conductive Oxide Glass for Enhanced Charge Extraction in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001121	4.6	7
492	Field electron emission measurements as a complementary technique to assess carbon nanotube quality. <i>Applied Physics Letters</i> , 2020 , 116, 103101	3.4	1
491	Improvement in the Electrical Properties of Nickel-Plated Steel Using Graphitic Carbon Coatings. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900408	3.5	0
490	Delivering interlaminar reinforcement in composites through electrospun nanofibres. <i>Advanced Manufacturing: Polymer and Composites Science</i> , 2019 , 5, 155-171	0.6	1
489	Solution processed hybrid Graphene-MoO ₃ hole transport layers for improved performance of organic solar cells. <i>Organic Electronics</i> , 2019 , 67, 95-100	3.5	10
488	Millimeter-Scale Unipolar Transport in High Sensitivity Organic-Inorganic Semiconductor X-ray Detectors. <i>ACS Nano</i> , 2019 , 13, 6973-6981	16.7	17
487	Tin(IV) dopant removal through anti-solvent engineering enabling tin based perovskite solar cells with high charge carrier mobilities. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8389-8397	7.1	22
486	Protected catalyst growth of graphene and carbon nanotubes. <i>Carbon</i> , 2019 , 149, 71-85	10.4	2
485	Sequential growth of hierarchical N-doped carbon-MoS ₂ nanocomposites with variable nanostructures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6197-6204	13	16
484	Energy Scavenging and Powering E-Skin Functional Devices. <i>Proceedings of the IEEE</i> , 2019 , 107, 2118-2136	14.3	18
483	Novel Tunnel-Contact-Controlled IGZO Thin-Film Transistors with High Tolerance to Geometrical Variability. <i>Advanced Materials</i> , 2019 , 31, e1902551	24	18
482	X-ray micro-computed tomography as a non-destructive tool for imaging the uptake of metal nanoparticles by graphene-based 3D carbon structures. <i>Nanoscale</i> , 2019 , 11, 14734-14741	7.7	3
481	Carbon Materials in Perovskite Solar Cells: Prospects and Future Challenges. <i>Energy and Environmental Materials</i> , 2019 , 2, 107-118	13	45
480	1D Semiconducting Nanostructures for Flexible and Large-Area Electronics: Growth Mechanisms and Suitability 2019 ,		9
479	49dB depletion-load amplifiers with polysilicon source-gated transistors 2019 ,		3
478	Strontium Fluoride and Zinc Oxide Stacked Structure as an Interlayer in High-Performance Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2149-2158	9.5	14
477	Nickel oxide and polytetrafluoroethylene stacked structure as an interfacial layer for efficient polymer solar cells. <i>Electrochimica Acta</i> , 2019 , 299, 366-371	6.7	12
476	Enhancing the performance of polymer solar cells using solution-processed copper doped nickel oxide nanoparticles as hole transport layer. <i>Journal of Colloid and Interface Science</i> , 2019 , 535, 308-317	9.3	19

475	Low-Temperature Solution-Processed Mg:SnO ₂ Nanoparticles as an Effective Cathode Interfacial Layer for Inverted Polymer Solar Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6702-6710	8.3	22
474	Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries. <i>ACS Photonics</i> , 2018 , 5, 1440-1452	6.3	19
473	A unified theoretical model for Triboelectric Nanogenerators. <i>Nano Energy</i> , 2018 , 48, 391-400	17.1	52
472	Hole Extraction Enhancement for Efficient Polymer Solar Cells with Boronic Acid Functionalized Carbon Nanotubes doped Hole Transport Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5122-5131	8.3	14
471	Formation of hollow MoS ₂ /carbon microspheres for high capacity and high rate reversible alkali-ion storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8280-8288	13	56
470	Defect Engineering toward Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800326	4.6	29
469	High sensitivity organic inorganic hybrid X-ray detectors with direct transduction and broadband response. <i>Nature Communications</i> , 2018 , 9, 2926	17.4	102
468	Solution-processed SnO ₂ nanoparticle interfacial layers for efficient electron transport in ZnO-based polymer solar cells. <i>Organic Electronics</i> , 2018 , 62, 373-381	3.5	14
467	Photonic Curing of Low-Cost Aqueous Silver Flake Inks for Printed Conductors with Increased Yield. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21398-21410	9.5	18
466	Probing of polymer to carbon nanotube surface interactions within highly aligned electrospun nanofibers for advanced composites. <i>Carbon</i> , 2018 , 138, 207-214	10.4	14
465	Electron energy loss line spectral and TEM analysis of heterojunctions 2018 , 41-44		
464	Large area uniform electrospun polymer nanofibres by balancing of the electrostatic field. <i>Reactive and Functional Polymers</i> , 2018 , 129, 89-94	4.6	9
463	Physicochemical characterisation of reduced graphene oxide for conductive thin films.. <i>RSC Advances</i> , 2018 , 8, 37540-37549	3.7	10
462	Towards manufacturing high uniformity polysilicon circuits through TFT contact barrier engineering. <i>Scientific Reports</i> , 2018 , 8, 17558	4.9	8
461	Nature of Power Generation and Output Optimization Criteria for Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2018 , 8, 1802190	21.8	54
460	Micro-Centrifugal Technique for Improved Assessment and Optimization of Nanomaterial Dispersions: The Case for Carbon Nanotubes. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6217-6225	5.6	8
459	Structural, chemical and electrical characterisation of conductive graphene-polymer composite films. <i>Applied Surface Science</i> , 2017 , 403, 403-412	6.7	23
458	Effects of ambient humidity on the optimum annealing time of mixed-halide Perovskite solar cells. <i>Nanotechnology</i> , 2017 , 28, 114004	3.4	15

457	Tuning epitaxial graphene sensitivity to water by hydrogen intercalation. <i>Nanoscale</i> , 2017 , 9, 3440-3448	7.7	16
456	Dataset on the absorption of PCDTBT:PCBM layers and the electro-optical characteristics of air-stable, large-area PCDTBT:PCBM-based polymer solar cell modules, deposited with a custom built slot-die coater. <i>Data in Brief</i> , 2017 , 11, 44-48	1.2	3
455	Controlled growth and spray deposition of silver nanowires for ITO-free, flexible, and high brightness OLEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600561	1.6	10
454	Fabrication of air-stable, large-area, PCDTBT:PC70BM polymer solar cell modules using a custom built slot-die coater. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 388-396	6.4	20
453	Source-Gated Transistors Based on Solution Processed Silicon Nanowires for Low Power Applications. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600256	6.4	12
452	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	6
451	Electrical semiconduction modulated by light in a cobalt and naphthalene diimide metal-organic framework. <i>Nature Communications</i> , 2017 , 8, 2139	17.4	37
450	Triboelectric nanogenerators: providing a fundamental framework. <i>Energy and Environmental Science</i> , 2017 , 10, 1801-1811	35.4	130
449	Novel nanoparticles with Cr substituted ferrite for self-regulating temperature hyperthermia. <i>Nanoscale</i> , 2017 , 9, 13929-13937	7.7	51
448	Design considerations for the source region of Schottky-barrier source-gated transistors 2017 ,		9
447	Highly Sensitive Dopamine Detection Using a Bespoke Functionalised Carbon Nanotube Microelectrode Array. <i>Electroanalysis</i> , 2017 , 29, 2365-2376	3	4
446	Charge Funneling through Metal Electrode Structuring for High-Efficiency Gains in Polymer Solar Cells. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600049	6.4	3
445	Multi-Functional Carbon Fibre Composites using Carbon Nanotubes as an Alternative to Polymer Sizing. <i>Scientific Reports</i> , 2016 , 6, 37334	4.9	53
444	Achieving 6.7% Efficiency in P3HT/Indene-C70 Bisadduct Solar Cells through the Control of Vertical Volume Fraction Distribution and Optimized Regio-Isomer Ratios. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600362	6.4	7
443	Heterojunction solar cells with improved power conversion efficiency using graphene quantum dots. <i>RSC Advances</i> , 2016 , 6, 110493-110498	3.7	13
442	Heterostructure Source-Gated Transistors: Challenges in Design and Fabrication. <i>ECS Transactions</i> , 2016 , 75, 61-66	1	6
441	Coherent quantum transport features in carbon superlattice structures. <i>Scientific Reports</i> , 2016 , 6, 35526	4.9	5
440	Cr(3+) substituted spinel ferrite nanoparticles with high coercivity. <i>Nanotechnology</i> , 2016 , 27, 245707	3.4	26

439	Surface and interface structure of quasi-free standing graphene on SiC. <i>2D Materials</i> , 2016 , 3, 025023	5.9	17
438	Carbon Nanotube Interconnects Realized through Functionalization and Sintered Silver Attachment. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5563-70	9.5	14
437	Ultra-broadband light trapping using nanotextured decoupled graphene multilayers. <i>Science Advances</i> , 2016 , 2, e1501238	14.3	88
436	Effects of humidity on the electronic properties of graphene prepared by chemical vapour deposition. <i>Carbon</i> , 2016 , 103, 273-280	10.4	49
435	Room Temperature Grown High-Quality Polymer-Like Carbon Gate Dielectric for Organic Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500374	6.4	9
434	Using Molecular Simulation to Explore Unusually Low Moisture Uptake in Amine-Cured Epoxy Carbon Fiber Reinforced Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1282-1292	2.6	
433	Optical nanostructures in 2D for wide-diameter and broadband beam collimation. <i>Scientific Reports</i> , 2016 , 6, 18767	4.9	5
432	PTFE/MoO ₃ Anode Bilayer Buffer Layers for Improved Performance in PCDTBT:PC71BM Blend Organic Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6473-6479	8.3	12
431	Low Impedance Functionalised Carbon Nanotube Electrode Arrays for Electrochemical Detection. <i>Electroanalysis</i> , 2016 , 28, 58-62	3	5
430	High efficiency air stable organic photovoltaics with an aqueous inorganic contact. <i>Nanoscale</i> , 2015 , 7, 14241-7	7.7	9
429	Temperature dependence of the current in Schottky-barrier source-gated transistors. <i>Journal of Applied Physics</i> , 2015 , 117, 184502	2.5	14
428	Bulk Barrier Source-Gated Transistors with Improved Drain Current Dynamic Range and Temperature Coefficient. <i>ECS Transactions</i> , 2015 , 67, 91-96	1	1
427	Temperature Effects in Complementary Inverters Made With Polysilicon Source-Gated Transistors. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 1498-1503	2.9	6
426	Nano-engineering of hybrid organic heterojunctions with carbon nanotubes to improve photovoltaic performance. <i>Organic Electronics</i> , 2015 , 22, 35-39	3.5	11
425	Electron Field Emission from Water-Based Carbon Nanotube Inks. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, P3034-P3043	2	5
424	Effect of solution processed and thermally evaporated interlayers on the performance of backgated polymer solar cells. <i>Thin Solid Films</i> , 2015 , 591, 159-163	2.2	
423	On-chip fabrication of high performance nanostructured ZnO UV detectors. <i>Scientific Reports</i> , 2015 , 5, 8516	4.9	108
422	Simultaneous optical and electrical modeling of plasmonic light trapping in thin-film amorphous silicon photovoltaic devices. <i>Journal of Photonics for Energy</i> , 2015 , 5, 057007	1.2	8

421	Equivalent Circuit Modeling for a High-Performance Large-Area Organic Photovoltaic Module. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 1100-1105	3.7	5
420	The true status of solar cell technology. <i>Nature Photonics</i> , 2015 , 9, 207-208	33.9	11
419	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. <i>Nanoscale</i> , 2015 , 7, 17441-9	7.7	11
418	A model for the impact of the nanostructure size on its gas sensing properties. <i>RSC Advances</i> , 2015 , 5, 103195-103202	3.7	10
417	The band structure of graphene oxide examined using photoluminescence spectroscopy. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12484-12491	7.1	44
416	Towards type-selective carbon nanotube growth at low substrate temperature via photo-thermal chemical vapour deposition. <i>Carbon</i> , 2015 , 84, 409-418	10.4	14
415	Highly aligned arrays of super resilient carbon nanotubes by steam purification. <i>Carbon</i> , 2015 , 84, 130-137	10.4	24
414	Decoration of multiwalled carbon nanotubes with protected iron nanoparticles. <i>Carbon</i> , 2015 , 84, 47-55	10.4	10
413	Tunable scattering from liquid crystal devices using carbon nanotubes network electrodes. <i>Nanoscale</i> , 2015 , 7, 330-6	7.7	15
412	Self-Heating Effects In Polysilicon Source Gated Transistors. <i>Scientific Reports</i> , 2015 , 5, 14058	4.9	13
411	The Role of Substituent Effects in Tuning Metallophilic Interactions and Emission Energy of Bis-4-(2-pyridyl)-1,2,3-triazoloplatinum(II) Complexes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7949-53	16.4	41
410	High Quality Carbon Nanotubes on Conductive Substrates Grown at Low Temperatures. <i>Advanced Functional Materials</i> , 2015 , 25, 4419-4429	15.6	31
409	Does Electronic Type Matter when Single-Walled Carbon Nanotubes are Used for Electrode Applications?. <i>Advanced Functional Materials</i> , 2015 , 25, 4520-4530	15.6	8
408	Filtration properties of hierarchical carbon nanostructures deposited on carbon fibre fabrics. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 115305	3	4
407	Carrier type inversion in quasi-free standing graphene: studies of local electronic and structural properties. <i>Scientific Reports</i> , 2015 , 5, 10505	4.9	45
406	Temperature dependent separation of metallic and semiconducting carbon nanotubes using gel agarose chromatography. <i>Carbon</i> , 2015 , 93, 574-594	10.4	17
405	Dramatic reductions in water uptake observed in novel POSS nanocomposites based on anhydride-cured epoxy matrix resins. <i>Materials Today Communications</i> , 2015 , 4, 186-198	2.5	6
404	ZnO hybrid photovoltaics with variable side-chain lengths of thienothiophene polymer. <i>Thin Solid Films</i> , 2015 , 576, 38-41	2.2	5

403 Hybrid and Nano-composite Carbon Sensing Platforms **2015**, 105-132

402 Source-gated transistors for order-of-magnitude performance improvements in thin-film digital circuits. *Scientific Reports*, **2014**, 4, 4295 4.9 39

401 Raman, EELS and XPS studies of maghemite decorated multi-walled carbon nanotubes. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 121, 715-8 4.4 21

400 Correlation between wetting properties and electrical performance of solution processed PEDOT:PSS/CNT nano-composite thin films. *Colloid and Polymer Science*, **2014**, 292, 661-668 2.4 14

399 Hybrid graphene-metal oxide solution processed electron transport layers for large area high-performance organic photovoltaics. *Advanced Materials*, **2014**, 26, 2078-83 24 84

398 ZnO nanodisk based UV detectors with printed electrodes. *Langmuir*, **2014**, 30, 3913-21 4 44

397 Inkjet printed PEDOT:PSS/MWCNT nano-composites with aligned carbon nanotubes and enhanced conductivity. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 150-153 2.5 11

396 Low temperature growth of carbon nanotubes on carbon fibre to create a highly networked fuzzy fibre reinforced composite with superior electrical conductivity. *Carbon*, **2014**, 74, 319-328 10.4 60

395 From 1D and 2D ZnO nanostructures to 3D hierarchical structures with enhanced gas sensing properties. *Nanoscale*, **2014**, 6, 235-47 7.7 315

394 Storage Lifetime of Polymer-Carbon Nanotube Inks for Use as Charge Transport Layers in Organic Light Emitting Diodes. *Journal of Display Technology*, **2014**, 10, 125-131 8

393 Hierarchically designed ZnO nanostructure based high performance gas sensors. *RSC Advances*, **2014**, 4, 49521-49528 3.7 19

392 Silver grid transparent conducting electrodes for organic light emitting diodes. *Organic Electronics*, **2014**, 15, 3492-3500 3.5 23

391 Hybrid metal grid-polymer-carbon nanotube electrodes for high luminance organic light emitting diodes. *Nanotechnology*, **2014**, 25, 345202 3.4 7

390 A critical look at organic photovoltaic fabrication methodology: Defining performance enhancement parameters relative to active area. *Solar Energy Materials and Solar Cells*, **2014**, 130, 513-520 6.4 16

389 Towards the rational design of polymers using molecular simulation: Predicting the effect of cure schedule on thermo-mechanical properties for a cycloaliphatic amine-cured epoxy resin. *Reactive and Functional Polymers*, **2014**, 74, 1-15 4.6 12

388 Highly conductive and dispersible graphene and its application in P3HT-based solar cells. *Chemical Communications*, **2014**, 50, 8705-8 5.8 37

387 Thin film hexagonal gold grids as transparent conducting electrodes in organic light emitting diodes. *Laser and Photonics Reviews*, **2014**, 8, 172-179 8.3 37

386 Graphene oxide hole transport layers for large area, high efficiency organic solar cells. *Applied Physics Letters*, **2014**, 105, 073304 3.4 45

385	'Inorganics-in-organics': recent developments and outlook for 4G polymer solar cells. <i>Nanoscale</i> , 2013 , 5, 8411-27	7.7	132
384	Solution processed reduced graphene oxide/metal oxide hybrid electron transport layers for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9922	13	64
383	Highly Transmissive Carbon Nanotube Forests Grown at Low Substrate Temperature. <i>Advanced Functional Materials</i> , 2013 , 23, 5502-5509	15.6	15
382	3-D Mapping of Sensitivity of Graphene Hall Devices to Local Magnetic and Electrical Fields. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3445-3448	2	11
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