

Xiaoming Tao

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518
papers

18,463
citations

67
h-index

117
g-index

631
ext. papers

21,447
ext. citations

5.2
avg, IF

7.16
L-index

#	Paper	IF	Citations
518	Fiber-based wearable electronics: a review of materials, fabrication, devices, and applications. <i>Advanced Materials</i> , 2014 , 26, 5310-36	24	1376
517	Well-dispersed chitosan/graphene oxide nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1707-13	9.5	595
516	Coherent detection in optical fiber systems. <i>Optics Express</i> , 2008 , 16, 753-91	3.3	531
515	Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1037-1053	8.4	418
514	Photodetectors Based on Two-Dimensional Layered Materials Beyond Graphene. <i>Advanced Functional Materials</i> , 2017 , 27, 1603886	15.6	406
513	A Transparent, Flexible, Low-Temperature, and Solution-Processible Graphene Composite Electrode. <i>Advanced Functional Materials</i> , 2010 , 20, 2893-2902	15.6	349
512	Synthesis and characterization of layer-aligned poly(vinyl alcohol)/graphene nanocomposites. <i>Polymer</i> , 2010 , 51, 3431-3435	3.9	301
511	Highly durable all-fiber nanogenerator for mechanical energy harvesting. <i>Energy and Environmental Science</i> , 2013 , 6, 2631	35.4	261
510	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. <i>Nanoscale</i> , 2011 , 3, 258-64	7.7	258
509	Fabrication and properties of microcapsules and nanocapsules containing n-octadecane. <i>Materials Chemistry and Physics</i> , 2004 , 88, 300-307	4.4	244
508	In-shoe plantar pressure measurement and analysis system based on fabric pressure sensing array. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 767-75		229
507	Smart Textile-Integrated Microelectronic Systems for Wearable Applications. <i>Advanced Materials</i> , 2020 , 32, e1901958	24	218
506	Simultaneous strain and temperature measurement using a superstructure fiber Bragg grating. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 675-677	2.2	209
505	Crystallization and prevention of supercooling of microencapsulated n-alkanes. <i>Journal of Colloid and Interface Science</i> , 2005 , 281, 299-306	9.3	202
504	Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. <i>Advanced Materials</i> , 2010 , 22, 4872-6	24	196
503	High-performance graphdiyne-based electrochemical actuators. <i>Nature Communications</i> , 2018 , 9, 752	17.4	183
502	Manageable N-doped graphene for high performance oxygen reduction reaction. <i>Scientific Reports</i> , 2013 , 3, 2771	4.9	168

501	Structure and thermal stability of microencapsulated phase-change materials. <i>Colloid and Polymer Science</i> , 2004 , 282, 330-336	2.4	167
500	Edge structural stability and kinetics of graphene chemical vapor deposition growth. <i>ACS Nano</i> , 2012 , 6, 3243-50	16.7	154
499	Combining ThioBromo Click Chemistry and RAFT Polymerization: A Powerful Tool for Preparing Functionalized Multiblock and Hyperbranched Polymers. <i>Macromolecules</i> , 2010 , 43, 20-24	5.5	149
498	Carbon nanotube-reinforced polyurethane composite fibers. <i>Composites Science and Technology</i> , 2006 , 66, 3029-3034	8.6	149
497	UV-blocking property of dumbbell-shaped ZnO crystallites on cotton fabrics. <i>Inorganic Chemistry</i> , 2005 , 44, 3926-30	5.1	144
496	A potential material for tissue engineering: Silkworm silk/PLA biocomposite. <i>Composites Part B: Engineering</i> , 2008 , 39, 1026-1033	10	141
495	A flexible strain sensor from polypyrrole-coated fabrics. <i>Synthetic Metals</i> , 2005 , 155, 89-94	3.6	141
494	Superhydrophobic Silica Nanocomposite Coating by a Low-Temperature Process. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1782-1784	3.8	139
493	Enhanced mechanical properties and morphological characterizations of poly(vinyl alcohol)/carbon nanotube composite films. <i>Applied Surface Science</i> , 2005 , 252, 1404-1409	6.7	135
492	Catalytic ozonation of simulated textile dyeing wastewater using mesoporous carbon aerogel supported copper oxide catalyst. <i>Journal of Cleaner Production</i> , 2016 , 112, 4710-4718	10.3	133
491	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. <i>Advanced Optical Materials</i> , 2013 , 1, 926-932	8.1	133
490	High stretchable MWNTs/polyurethane conductive nanocomposites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7274		133
489	Review of Flexible Temperature Sensing Networks for Wearable Physiological Monitoring. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601371	10.1	124
488	ZnO Nanorods grown on cotton fabrics at low temperature. <i>Chemical Physics Letters</i> , 2004 , 398, 250-255	2.5	123
487	Smart fibres, fabrics and clothing 2001 ,		123
486	Mechanical analysis of 3-D braided composites by the finite multiphase element method. <i>Composites Science and Technology</i> , 1999 , 59, 2383-2391	8.6	120
485	Graphene-Draped Semiconductors for Enhanced Photocorrosion Resistance and Photocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4144-4151	16.4	116
484	Fiber Bragg grating cavity sensor for simultaneous measurement of strain and temperature. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 105-107	2.2	115

483	Facile synthesis of wide-bandgap fluorinated graphene semiconductors. <i>Chemistry - A European Journal</i> , 2011 , 17, 8896-903	4.8	112
482	Textile-structured electrodes for electrocardiogram. <i>Textile Progress</i> , 2008 , 40, 183-213	2.9	98
481	A high performance fiber-shaped PEDOT@MnO ₂ //C@Fe ₃ O ₄ asymmetric supercapacitor for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14877-14883	13	96
480	Holey reduced graphene oxide nanosheets for high performance room temperature gas sensing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17415-17420	13	96
479	Electrically conductive yarns based on PVA/carbon nanotubes. <i>Composite Structures</i> , 2007 , 78, 271-277	5.3	89
478	A Fully Verified Theoretical Analysis of Contact-Mode Triboelectric Nanogenerators as a Wearable Power Source. <i>Advanced Energy Materials</i> , 2016 , 6, 1600505	21.8	89
477	Serum uric acid level and its association with metabolic syndrome and carotid atherosclerosis in patients with type 2 diabetes. <i>Cardiovascular Diabetology</i> , 2011 , 10, 72	8.7	88
476	Electromechanical properties of a yarn strain sensor with graphene-sheath/polyurethane-core. <i>Carbon</i> , 2017 , 118, 686-698	10.4	87
475	2011 ,		87
474	Room temperature gas sensing properties of SnO ₂ /multiwall-carbon-nanotube composite nanofibers. <i>Applied Physics Letters</i> , 2007 , 91, 133110	3.4	86
473	Conductive knitted fabric as large-strain gauge under high temperature. <i>Sensors and Actuators A: Physical</i> , 2006 , 126, 129-140	3.9	84
472	Energy storage polymer/MicroPCMs blended chips and thermo-regulated fibers. <i>Journal of Materials Science</i> , 2005 , 40, 3729-3734	4.3	82
471	Easy synthesis of carbon nanotubes with polypyrrole nanotubes as the carbon precursor. <i>Polymer</i> , 2009 , 50, 2815-2818	3.9	81
470	Fiber-Based Thermoelectric Generators: Materials, Device Structures, Fabrication, Characterization, and Applications. <i>Advanced Energy Materials</i> , 2018 , 8, 1700524	21.8	79
469	Regeneration and reuse of highly polluting textile dyeing effluents through catalytic ozonation with carbon aerogel catalysts. <i>Journal of Cleaner Production</i> , 2016 , 137, 1055-1065	10.3	78
468	Fundamentals and applications of optical fiber Bragg grating sensors to textile structural composites. <i>Composite Structures</i> , 1998 , 42, 217-229	5.3	78
467	Investigation of carbon black/silicone elastomer/dimethylsilicone oil composites for flexible strain sensors. <i>Polymer Testing</i> , 2012 , 31, 677-684	4.5	77
466	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. <i>Nanoscale</i> , 2013 , 5, 7202-8	7.7	77

465	Electro-Mechanical Properties of Knitted Fabric Made From Conductive Multi-Filament Yarn Under Unidirectional Extension. <i>Textile Reseach Journal</i> , 2005 , 75, 598-606	1.7	77
464	Flexible organic light-emitting diodes with a polymeric nanocomposite anode. <i>Nanotechnology</i> , 2008 , 19, 145201	3.4	75
463	Thermally drawn advanced functional fibers: New frontier of flexible electronics. <i>Materials Today</i> , 2020 , 35, 168-194	21.8	74
462	What are the active carbon species during graphene chemical vapor deposition growth?. <i>Nanoscale</i> , 2015 , 7, 1627-34	7.7	71
461	Wearable strain sensing textile based on one-dimensional stretchable and weavable yarn sensors. <i>Nano Research</i> , 2018 , 11, 5799-5811	10	71
460	QoS-Aware Energy-Efficient Radio Resource Scheduling in Multi-User OFDMA Systems. <i>IEEE Communications Letters</i> , 2013 , 17, 75-78	3.8	70
459	An experimental study of in-plane large shear deformation of woven fabric composite. <i>Composites Science and Technology</i> , 2007 , 67, 252-261	8.6	69
458	Large deformation and slippage mechanism of plain woven composite in bias extension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1821-1828	8.4	69
457	Signal Design and Detection in Presence of Nonlinear Phase Noise. <i>Journal of Lightwave Technology</i> , 2007 , 25, 3008-3016	4	68
456	Self-Organizing Alignment of Carbon Nanotubes in Thermoplastic Polyurethane. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1763-1767	4.8	68
455	Low Temperature Plasma Treatment of Linen. <i>Textile Reseach Journal</i> , 1999 , 69, 846-855	1.7	68
454	Self-Powered Piezoionic Strain Sensor toward the Monitoring of Human Activities. <i>Small</i> , 2016 , 12, 5074-5080	5.0	68
453	Low-dimensional carbon based sensors and sensing network for wearable health and environmental monitoring. <i>Carbon</i> , 2017 , 121, 353-367	10.4	67
452	Structures and Properties of Wet Spun Thermo-Regulated Polyacrylonitrile-Vinylidene Chloride Fibers. <i>Textile Reseach Journal</i> , 2006 , 76, 351-359	1.7	66
451	Energy-Efficient Resource Allocation in LTE-Based MIMO-OFDMA Systems With User Rate Constraints. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 185-197	6.8	65
450	Defect-engineered reduced graphene oxide sheets with high electric conductivity and controlled thermal conductivity for soft and flexible wearable thermoelectric generators. <i>Nano Energy</i> , 2018 , 54, 163-174	17.1	64
449	Electromechanical Behavior of Fibers Coated with an Electrically Conductive Polymer. <i>Textile Reseach Journal</i> , 2004 , 74, 929-936	1.7	63
448	Wicking Properties of Linen Treated with Low Temperature Plasma. <i>Textile Reseach Journal</i> , 2001 , 71, 49-56	1.7	63

447	Latency Minimization for D2D-Enabled Partial Computation Offloading in Mobile Edge Computing. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4472-4486	6.8	62
446	Trans-4-stilbenemethanol-doped photosensitive polymer fibers and gratings. <i>Optics Letters</i> , 2004 , 29, 156-8	3	62
445	Expansion space and thermal stability of microencapsulated n-octadecane. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 390-396	2.9	61
444	Fabrication and characterization of OLEDs using PEDOT:PSS and MWCNT nanocomposites. <i>Composites Science and Technology</i> , 2008 , 68, 2837-2841	8.6	60
443	Graphene-Bridged Multifunctional Flexible Fiber Supercapacitor with High Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28597-28607	9.5	59
442	Thermal degradation kinetics and lifetime prediction of a luminescent conducting polymer. <i>Polymer International</i> , 2004 , 53, 20-26	3.3	59
441	Production and characterization of polymer nanocomposite with aligned single wall carbon nanotubes. <i>Applied Surface Science</i> , 2006 , 252, 3547-3552	6.7	55
440	Study of Fiber-Based Wearable Energy Systems. <i>Accounts of Chemical Research</i> , 2019 , 52, 307-315	24.3	53
439	Microstructures and electrical conductance of silver nanocrystalline thin films on flexible polymer substrates. <i>Surface and Coatings Technology</i> , 2010 , 204, 1206-1210	4.4	53
438	2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. <i>Research</i> , 2019 , 2019, 9490413	7.8	53
437	Recent progress of fiber-shaped asymmetric supercapacitors. <i>Materials Today Energy</i> , 2017 , 5, 1-14	7	51
436	Quantifying Energy Harvested from Contact-Mode Hybrid Nanogenerators with Cascaded Piezoelectric and Triboelectric Units. <i>Advanced Energy Materials</i> , 2017 , 7, 1601569	21.8	51
435	Low-complexity and phase noise tolerant carrier phase estimation for dual-polarization 16-QAM systems. <i>Optics Express</i> , 2011 , 19, 21717-29	3.3	51
434	Equalization-enhanced phase noise for 100 Gb/s transmission and beyond with coherent detection. <i>Optics Express</i> , 2010 , 18, 17239-51	3.3	51
433	Morphological and electromechanical studies of fibers coated with electrically conductive polymer. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 1844-1854	2.9	50
432	Control of natural frequencies of a clamped-clamped composite beam with embedded shape memory alloy wires. <i>Composite Structures</i> , 2002 , 58, 39-47	5.3	48
431	Breath Figure Micromolding Approach for Regulating the Microstructures of Polymeric Films for Triboelectric Nanogenerators. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4988-4997	9.5	47
430	Design of Novel Wearable, Stretchable, and Waterproof Cable-Type Supercapacitors Based on High-Performance Nickel Cobalt Sulfide-Coated Etching-Annealed Yarn Electrodes. <i>Small</i> , 2018 , 14, e1704373	11.1	47

429	Highly Flexible, Large-Area, and Facile Textile-Based Hybrid Nanogenerator with Cascaded Piezoelectric and Triboelectric Units for Mechanical Energy Harvesting. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800016	6.8	47
428	Lipocalin-2, glucose metabolism and chronic low-grade systemic inflammation in Chinese people. <i>Cardiovascular Diabetology</i> , 2012 , 11, 11	8.7	47
427	Genetic variation in the GCKR gene is associated with non-alcoholic fatty liver disease in Chinese people. <i>Molecular Biology Reports</i> , 2011 , 38, 1145-50	2.8	47
426	Three-dimensionally deformable, highly stretchable, permeable, durable and washable fabric circuit boards. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140472	2.4	46
425	Modification of conductive polymer for polymeric anodes of flexible organic light-emitting diodes. <i>Nanoscale Research Letters</i> , 2009 , 4, 613-7	5	45
424	Preparation of durable hydrophobic cellulose fabric from water glass and mixed organosilanes. <i>Applied Surface Science</i> , 2010 , 257, 1495-1499	6.7	45
423	Synthesis and characterization of hydrophobic silica nanocomposites. <i>Applied Surface Science</i> , 2006 , 252, 5368-5371	6.7	45
422	Triboelectric charge density of porous and deformable fabrics made from polymer fibers. <i>Nano Energy</i> , 2018 , 53, 383-390	17.1	45
421	Ruthenium-catalyzed enantioselective hydrogenation of aryl-pyridyl ketones. <i>Journal of Organic Chemistry</i> , 2012 , 77, 612-6	4.2	44
420	Development of formaldehyde-free agar/gelatin microcapsules containing berberine HCl and gallic acid and their topical and oral applications. <i>Soft Matter</i> , 2012 , 8, 5027	3.6	44
419	Luminous fabric devices for wearable low-level light therapy. <i>Biomedical Optics Express</i> , 2013 , 4, 2925-373.5	3.5	44
418	Optical Performance Monitoring Using Artificial Neural Networks Trained With Empirical Moments of Asynchronously Sampled Signal Amplitudes. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 982-984	2.2	44
417	Experimental and theoretical analysis of fiber Bragg gratings under lateral compression. <i>Optics Communications</i> , 2002 , 206, 81-87	2	44
416	Strain sensing behavior of electrically conductive fibers under large deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2863-2869	5.3	43
415	Modulation of refractive index and thickness of poly(methyl methacrylate) thin films with UV irradiation and heat treatment. <i>Applied Surface Science</i> , 2005 , 252, 1283-1292	6.7	43
414	Monolithic Integration of All-in-One Supercapacitor for 3D Electronics. <i>Advanced Energy Materials</i> , 2019 , 9, 1900037	21.8	43
413	Fully Controllable Design and Fabrication of Three-Dimensional Lattice Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39839-39850	9.5	43
412	A New Approach for Readout of Resistive Sensor Arrays for Wearable Electronic Applications. <i>IEEE Sensors Journal</i> , 2015 , 15, 442-452	4	42

411	A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. <i>Advanced Science</i> , 2020 , 7, 1903568	13.6	42
410	Novel C-rich carbon nitride for room temperature NO ₂ gas sensors. <i>RSC Advances</i> , 2014 , 4, 18003-18006	3.7	41
409	Mode coupling dynamics and communication strategies for multi-core fiber systems. <i>Optics Express</i> , 2012 , 20, 4548-63	3.3	40
408	In situ SEM studies on strain sensing mechanisms of PPy-coated electrically conducting fabrics. <i>Applied Surface Science</i> , 2007 , 253, 3387-3392	6.7	40
407	Enhancing the Performance of a Stretchable and Transparent Triboelectric Nanogenerator by Optimizing the Hydrogel Ionic Electrode Property. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23474-23483	9.5	39
406	Investigation on the electrical response behaviors of multiwalled carbon nanotube/polyurethane composite in organic solvent vapors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 330-337	8.5	39
405	Preparation of Porous Tin Oxide Nanobelts Using the Electrospinning Technique. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 257-262	3.8	39
404	Simultaneous measurement of axial strain, temperature, and transverse load by a superstructure fiber grating. <i>Optics Letters</i> , 2001 , 26, 1949-51	3	39
403	Compression Garments for Medical Therapy and Sports. <i>Polymers</i> , 2018 , 10,	4.5	38
402	Experimental investigation of formability of commingled woven composite preform in stamping operation. <i>Composites Part B: Engineering</i> , 2011 , 42, 289-295	10	38
401	Effect of Crystal Melting on Water Vapor Permeability of Shape-Memory Polyurethane Film. <i>Textile Research Journal</i> , 2004 , 74, 39-43	1.7	38
400	Association between socioeconomic status and metabolic control and diabetes complications: a cross-sectional nationwide study in Chinese adults with type 2 diabetes mellitus. <i>Cardiovascular Diabetology</i> , 2016 , 15, 61	8.7	37
399	Inscription of Polymer Optical Fiber Bragg Grating at 962 nm and Its Potential in Strain Sensing. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1562-1564	2.2	37
398	Multifunctional Smart Optical Fibers: Materials, Fabrication, and Sensing Applications. <i>Photonics</i> , 2019 , 6, 48	2.2	36
397	Fabrication and evaluation of a notched polymer optical fiber fabric strain sensor and its application in human respiration monitoring. <i>Textile Research Journal</i> , 2014 , 84, 1791-1802	1.7	36
396	Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. <i>IEEE Sensors Journal</i> , 2013 , 13, 1478-1482	4	36
395	Flexible pressure sensors for smart protective clothing against impact loading. <i>Smart Materials and Structures</i> , 2014 , 23, 015001	3.4	36
394	Theoretical Modeling of Large Shear Deformation and Wrinkling of Plain Woven Composite. <i>Journal of Composite Materials</i> , 2009 , 43, 125-138	2.7	36

393	Electromechanical analysis of length-related resistance and contact resistance of conductive knitted fabrics. <i>Textile Reseach Journal</i> , 2012 , 82, 2062-2070	1.7	36
392	Structural and mechanical properties of polymeric optical fiber. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 364, 256-259	5.3	36
391	Handbook of Smart Textiles 2015 ,		35
390	Effects of aqueous stable fullerene nanocrystal (nC60) on <i>Scenedesmus obliquus</i> : evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. <i>Chemosphere</i> , 2015 , 122, 162-167	8.4	35
389	Plant structured textile fabrics. <i>Materials Letters</i> , 2007 , 61, 561-565	3.3	35
388	Evaluating the efficacy of tele-cognitive rehabilitation for functional performance in three case studies. <i>Occupational Therapy International</i> , 2003 , 10, 20-38	1.4	35
387	Recent advances in soft functional materials: preparation, functions and applications. <i>Nanoscale</i> , 2020 , 12, 1281-1306	7.7	35
386	Diastereo- and enantioselective asymmetric hydrogenation of β -amido- β -keto phosphonates via dynamic kinetic resolution. <i>Organic Letters</i> , 2013 , 15, 72-5	6.2	34
385	Cladding-mode-assisted recouplings in concatenated long-period and fiber Bragg gratings. <i>Optics Letters</i> , 2002 , 27, 1214-6	3	34
384	Investigating the influence of a weak continuous-wave-trigger on picosecond supercontinuum generation. <i>Optics Express</i> , 2011 , 19, 13757-69	3.3	33
383	Polymer nanostructures made by scanning probe lithography: recent progress in material applications. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 359-73	4.8	32
382	Preparation of Temperature-Sensitive Polyurethanes for Smart Textiles. <i>Textile Reseach Journal</i> , 2006 , 76, 406-413	1.7	31
381	The energy-absorbing capacity of grid-domed textile composites. <i>Composites Science and Technology</i> , 2000 , 60, 785-800	8.6	31
380	Topographical Study of Low Temperature Plasma Treated Flax Fibers. <i>Textile Reseach Journal</i> , 2000 , 70, 886-893	1.7	31
379	Highly stable fiber Bragg gratings written in hydrogen-loaded fiber. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 1349-1351	2.2	31
378	Polypyrrole-coated conductive fabrics as a candidate for strain sensors. <i>Journal of Materials Science</i> , 2005 , 40, 4093-4095	4.3	30
377	A wearable and highly sensitive CO sensor with a macroscopic polyaniline nanofiber membrane. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24333-24337	13	27
376	Ru-catalyzed asymmetric hydrogenation of β -heteroatom substituted β -keto esters. <i>Journal of Organic Chemistry</i> , 2011 , 76, 9444-51	4.2	27

375	Novel fabric pressure sensors: design, fabrication, and characterization. <i>Smart Materials and Structures</i> , 2011 , 20, 065015	3.4	27
374	Shaddock peels-based activated carbon as cost-saving adsorbents for efficient removal of Cr (VI) and methyl orange. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19828-19842	5.1	26
373	PPARG gene Pro12Ala variant contributes to the development of non-alcoholic fatty liver in middle-aged and older Chinese population. <i>Molecular and Cellular Endocrinology</i> , 2012 , 348, 255-9	4.4	26
372	Synergetic Effects of Humidity and Temperature on PMMA Based Fiber Bragg Gratings. <i>Journal of Lightwave Technology</i> , 2012 , 30, 841-845	4	26
371	Effects of aqueous stable fullerene nanocrystal (nC60) on copper (trace necessary nutrient metal): Enhanced toxicity and accumulation of copper in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2013 , 92, 1245-52	8.4	26
370	Enantioselective hydrogenation of β -ketophosphonates with chiral Ru(II) catalysts. <i>Journal of Organic Chemistry</i> , 2012 , 77, 8401-9	4.2	26
369	Vapor phase polymerization of 3,4-ethylenedioxythiophene on flexible substrate and its application on heat generation. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 1049-1055	3.2	26
368	An elegant coupling: Freeze-casting and versatile polymer composites. <i>Progress in Polymer Science</i> , 2020 , 109, 101289	29.6	26
367	Recent advances in wearable textile-based triboelectric generator systems for energy harvesting from human motion. <i>EcoMat</i> , 2020 , 2, e12054	9.4	26
366	Learning QoE of Mobile Video Transmission With Deep Neural Network: A Data-Driven Approach. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 1337-1348	14.2	25
365	Tensile properties and meso-scale mechanism of weft knitted textile composites for energy absorption. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 113-123	8.4	25
364	A novel approach to improving the quality of chitosan blended yarns using static theory. <i>Textile Reseach Journal</i> , 2015 , 85, 1022-1034	1.7	24
363	OSNR Monitoring for RZ-DQPSK Systems Using Half-Symbol Delay-Tap Sampling Technique. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 823-825	2.2	24
362	Linear photonic radio frequency phase shifter using a differential-group-delay element and an optical phase modulator. <i>Optics Letters</i> , 2010 , 35, 1881-3	3	24
361	Effect of fabrication temperature on strain-sensing capacity of polypyrrole-coated conductive fabrics. <i>Polymer International</i> , 2007 , 56, 827-833	3.3	24
360	A novel sensate β -ring for large-strain measurement at high temperature. <i>Measurement Science and Technology</i> , 2006 , 17, 450-458	2	24
359	Wearable photonics based on integrative polymeric photonic fibres 2005 , 136-154		24
358	Hyperspectral Image Denoising via Matrix Factorization and Deep Prior Regularization. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	24

357	Ru-catalyzed highly chemo- and enantioselective hydrogenation of halo-unsaturated-keto esters under neutral conditions. <i>Chemical Communications</i> , 2012 , 48, 5352-4	5.8	23
356	Systematic investigation and optimization of fine cotton yarns produced in a modified ring spinning system using statistical methods. <i>Textile Reseach Journal</i> , 2013 , 83, 238-248	1.7	23
355	Adaptive Chromatic Dispersion Compensation for Coherent Communication Systems Using Delay-Tap Sampling Technique. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1016-1018	2.2	23
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