

Sang-Jae Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4821054/publications.pdf>

Version: 2024-02-01

311
papers

17,800
citations

11651

70
h-index

19190

118
g-index

324
all docs

324
docs citations

324
times ranked

18977
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Eco-Friendly Synthesis of Cobalt Molybdenum Hydroxide 3d Nanostructures on Carbon Fabric Coupled with Cherry Flower Waste-Derived Activated Carbon for Quasi-Solid-State Flexible Asymmetric Supercapacitors. <i>ACS Applied Nano Materials</i> , 2022, 5, 160-175. | 5.0 | 37 |
| 2 | Method for fabricating highly crystalline polyvinylidene fluoride for piezoelectric energy-harvesting and vibration sensor applications. <i>Sustainable Energy and Fuels</i> , 2022, 6, 674-681. | 4.9 | 10 |
| 3 | MoS ₂ quantum sheets-PVDF nanocomposite film based self-poled piezoelectric nanogenerators and photovoltaically self-charging power cell. <i>Nano Energy</i> , 2022, 93, 106869. | 16.0 | 21 |
| 4 | Ferroelectric-semiconductor BaTiO ₃ •Ag ₂ O nanohybrid as an efficient piezo-photocatalytic material. <i>Chemosphere</i> , 2022, 292, 133398. | 8.2 | 12 |
| 5 | Perspective on the development of high performance flexible piezoelectric energy harvesters. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2905-2924. | 5.5 | 23 |
| 6 | Crystallinity modulation originates ferroelectricity like nature in piezoelectric selenium. <i>Nano Energy</i> , 2022, 95, 107008. | 16.0 | 4 |
| 7 | Two Faces Under a Hood: Unravelling the Energy Harnessing and Storage Properties of 1T-MoS ₂ Quantum Sheets for Next-Generation Stand-Alone Energy Systems. <i>ACS Nano</i> , 2022, 16, 3723-3734. | 14.6 | 27 |
| 8 | Decoupling mechano- and electrochemical gating: a direct visualization for piezo-ionic propelled proton tunneling in self-charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7818-7829. | 10.3 | 20 |
| 9 | Effective regeneration of mixed composition of spent lithium-ion batteries electrodes towards building supercapacitor. <i>Journal of Hazardous Materials</i> , 2022, 430, 128496. | 12.4 | 23 |
| 10 | Boron-oxy-carbide sheets: A wide voltage symmetric supercapacitor electrode with high temperature tolerance. <i>Chemical Engineering Journal</i> , 2022, 446, 136983. | 12.7 | 4 |
| 11 | Green Energy from Edible Materials: Triboelectrification-Enabled Sustainable Self-Powered Human Joint Movement Monitoring. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6549-6558. | 6.7 | 21 |
| 12 | CuMoO ₄ nanostructures: A novel bifunctional material for supercapacitor and sensor applications. <i>Journal of Energy Storage</i> , 2022, 52, 104784. | 8.1 | 26 |
| 13 | Recent trends, challenges, and perspectives in piezoelectric-driven self-charging electrochemical supercapacitors. , 2022, 4, 833-855. | | 16 |
| 14 | Monolithic integration of MoS ₂ quantum sheets on solid electrolyte for self-charging supercapacitor power cell governed by piezo-ionic effect. <i>Sustainable Materials and Technologies</i> , 2022, , e00459. | 3.3 | 5 |
| 15 | Activated carbon derived from cherry flower biowaste with a self-doped heteroatom and large specific surface area for supercapacitor and sodium-ion battery applications. <i>Chemosphere</i> , 2022, 303, 135290. | 8.2 | 70 |
| 16 | Topochemically synthesized MoS ₂ nanosheets: A high performance electrode for wide-temperature tolerant aqueous supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 714-722. | 9.4 | 45 |
| 17 | Porosity modulated piezo-triboelectric hybridized nanogenerator for sensing small energy impacts. <i>Applied Materials Today</i> , 2021, 22, 100900. | 4.3 | 28 |
| 18 | Carbothermal conversion of boric acid into boron-oxy-carbide nanostructures for high-power supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 915-921. | 10.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Two-Dimensional Siloxene-Based Graphene Heterostructure-Based High-Performance Supercapacitor for Capturing Regenerative Braking Energy in Electric Vehicles. <i>Advanced Functional Materials</i> , 2021, 31, 2008422. | 14.9 | 121 |
| 20 | Efficient electrochemical water splitting using copper molybdenum sulfide anchored Ni foam as a high-performance bifunctional catalyst. <i>Materials Advances</i> , 2021, 2, 455-463. | 5.4 | 11 |
| 21 | High-power graphene supercapacitors for the effective storage of regenerative energy during the braking and deceleration process in electric vehicles. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6200-6211. | 5.9 | 41 |
| 22 | Ultrasound irradiation mediated preparation of antimony sulfide (SbS ₂) nanorods as a high-capacity electrode for electrochemical supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2303-2312. | 5.9 | 13 |
| 23 | Biodegradable metal-organic framework MIL-88A for triboelectric nanogenerator. <i>IScience</i> , 2021, 24, 102064. | 4.1 | 52 |
| 24 | Designing an Interlayer-Widened MoS ₂ -Packed Nitrogen-Rich Carbon Nanotube Core-Shell Structure for Redox-Mediated Quasi-Solid-State Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 2218-2230. | 5.1 | 17 |
| 25 | A highly reliable contact-separation based triboelectric nanogenerator for scavenging bio-mechanical energy and self-powered electronics. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 2131-2139. | 1.5 | 10 |
| 26 | Metal-Amino Acid Nanofibers based Triboelectric Nanogenerator for Self-Powered Thioacetamide Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18887-18896. | 8.0 | 13 |
| 27 | High-Performance Multifaceted Piezoelectric Composite Nanogenerators for Weight-Monitoring Sensors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2024-2034. | 4.3 | 3 |
| 28 | 0.8BNT-0.2BKT ferroelectric-based multimode energy harvester for self-powered body motion sensors. <i>Nano Energy</i> , 2021, 83, 105848. | 16.0 | 7 |
| 29 | Proton conducting solid electrolyte-piezoelectric PVDF hybrids: Novel bifunctional separator for self-charging supercapacitor power cell. <i>Nano Energy</i> , 2021, 83, 105753. | 16.0 | 43 |
| 30 | Enhancing Hydrophobicity of Starch for Biodegradable Material-Based Triboelectric Nanogenerators. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9011-9017. | 6.7 | 39 |
| 31 | Ferroelectric flexible composite films based on morphotropic phase boundary for self-powered multisensors. <i>Chemical Engineering Journal</i> , 2021, 414, 128840. | 12.7 | 9 |
| 32 | Tailoring mechanical energy harvesting performance of piezoelectric nanogenerator via intrinsic electrical conductivity of ferroelectrics. <i>Materials Today Energy</i> , 2021, 20, 100679. | 4.7 | 9 |
| 33 | Thermoelectric Driven Self-Powered Water Electrolyzer Using Nanostructured CuFeS ₂ Plates as Bifunctional Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 7020-7029. | 5.1 | 31 |
| 34 | Electrospun Polymer-Derived Carbyne Supercapacitor for Alternating Current Line Filtering. <i>Small</i> , 2021, 17, e2102971. | 10.0 | 30 |
| 35 | Remotely controlled self-powering electrical stimulators for osteogenic differentiation using bone inspired bioactive piezoelectric whitlockite nanoparticles. <i>Nano Energy</i> , 2021, 85, 105901. | 16.0 | 43 |
| 36 | Materials Beyond Conventional Triboelectric Series for Fabrication and Applications of Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2021, 11, 2101170. | 19.5 | 122 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Triboelectric nanogenerator using multiferroic materials: An approach for energy harvesting and self-powered magnetic field detection. <i>Nano Energy</i> , 2021, 85, 105964. | 16.0 | 53 |
| 38 | The morphotropic phase boundary based BCST ferroelectric system for water remediation through Bi-catalytic activity. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159503. | 5.5 | 11 |
| 39 | LiTaO ₃ -Based Flexible Piezoelectric Nanogenerators for Mechanical Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46526-46536. | 8.0 | 17 |
| 40 | Electrochemical deposition of vertically aligned tellurium nanorods on flexible carbon cloth for wearable supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 421, 129548. | 12.7 | 34 |
| 41 | Shape-dependent in-plane piezoelectric response of SnSe nanowall/microspheres. <i>Nano Energy</i> , 2021, 88, 106231. | 16.0 | 10 |
| 42 | Elucidations on the Effect of Lanthanum Doping in ZnO Towards Enhanced Performance Nanogenerators. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 77-87. | 4.9 | 5 |
| 43 | Hydrothermally synthesized chalcopyrite platelets as an electrode material for symmetric supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1492-1502. | 6.0 | 47 |
| 44 | Carbothermal conversion of siloxene sheets into silicon-oxy-carbide lamellae for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 387, 123886. | 12.7 | 61 |
| 45 | Piezo/triboelectric hybrid nanogenerators based on Ca-doped barium zirconate titanate embedded composite polymers for wearable electronics. <i>Composites Science and Technology</i> , 2020, 188, 107963. | 7.8 | 52 |
| 46 | A fully packed spheroidal hybrid generator for water wave energy harvesting and self-powered position tracking. <i>Nano Energy</i> , 2020, 69, 104439. | 16.0 | 86 |
| 47 | Biocompatible electronic platform for monitoring protein-drug interactions with potential in future theranostics. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127497. | 7.8 | 5 |
| 48 | Editorial for the Special Issue on the ICAE 2019. <i>Micromachines</i> , 2020, 11, 874. | 2.9 | 0 |
| 49 | Synergetic enhancement of energy harvesting performance in triboelectric nanogenerator using ferroelectric polarization for self-powered IR signaling and body activity monitoring. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22257-22268. | 10.3 | 44 |
| 50 | Synergistic effects of nanocarbon spheres sheathed on a binderless CoMoO ₄ electrode for high-performance asymmetric supercapacitor. <i>Dalton Transactions</i> , 2020, 49, 14506-14519. | 3.3 | 22 |
| 51 | Encapsulated Triboelectric-Electromagnetic Hybrid Generator for a Sustainable Blue Energy Harvesting and Self-Powered Oil Spill Detection. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3100-3108. | 4.3 | 38 |
| 52 | Exploring the bifunctional properties of paper-like carbyne-enriched carbon for maintenance-free self-powered systems. <i>Materials Advances</i> , 2020, 1, 1644-1652. | 5.4 | 9 |
| 53 | ZIF-62: a mixed linker metal-organic framework for triboelectric nanogenerators. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17817-17825. | 10.3 | 66 |
| 54 | Antimonene dendritic nanostructures: Dual-functional material for high-performance energy storage and harvesting devices. <i>Nano Energy</i> , 2020, 77, 105248. | 16.0 | 86 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Solar driven renewable energy storage using rhenium disulfide nanostructure based rechargeable supercapacitors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3290-3301. | 5.9 | 17 |
| 56 | A lead-free ferroelectric Bi _{0.5} Na _{0.5} TiO ₃ based flexible, lightweight nanogenerator for motion monitoring applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5636-5644. | 4.9 | 13 |
| 57 | Nanocrystalline Antiferromagnetic High- ϵ^{\prime} Dielectric Sr ₂ NiMO ₆ (M = Te, W) with Double Perovskite Structure Type. <i>Molecules</i> , 2020, 25, 3996. | 3.8 | 23 |
| 58 | Green energy from working surfaces: a contact electrification-enabled data theft protection and monitoring smart table. <i>Materials Today Energy</i> , 2020, 18, 100544. | 4.7 | 23 |
| 59 | Probing the energy conversion process in piezoelectric-driven electrochemical self-charging supercapacitor power cell using piezoelectrochemical spectroscopy. <i>Nature Communications</i> , 2020, 11, 2351. | 12.8 | 189 |
| 60 | Exceptional interfacial electrochemistry of few-layered 2D MoS ₂ quantum sheets for high performance flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13121-13131. | 10.3 | 36 |
| 61 | Temperature-Dependent Electrical Transport Properties of Single-Walled Carbon Nanotube Thin Films Prepared by Electrohydrodynamic Atomization Technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000029. | 1.8 | 1 |
| 62 | Triboelectric nanogenerator for healthcare and biomedical applications. <i>Nano Today</i> , 2020, 33, 100882. | 11.9 | 110 |
| 63 | Structural crossover from long period modulated to non-modulated cubic-like phase at cryogenic temperature in the morphotropic phase boundary of Na _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ . <i>Journal of Applied Physics</i> , 2020, 127, . | 2.5 | 5 |
| 64 | All in one transitional flow-based integrated self-powered catechol sensor using BiFeO ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128417. | 7.8 | 19 |
| 65 | Substantial improvement on electrical energy harvesting by chemically modified/sandpaper-based surface modification in micro-scale for hybrid nanogenerators. <i>Applied Surface Science</i> , 2020, 514, 145904. | 6.1 | 27 |
| 66 | Free-Standing PVDF/Reduced Graphene Oxide Film for All-Solid-State Flexible Supercapacitors towards Self-Powered Systems. <i>Micromachines</i> , 2020, 11, 198. | 2.9 | 22 |
| 67 | A Sustainable Blue Energy Scavenging Smart Buoy toward Self-Powered Smart Fishing Net Tracker. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4120-4127. | 6.7 | 26 |
| 68 | A highly reliable, impervious and sustainable triboelectric nanogenerator as a zero-power consuming active pressure sensor. <i>Nanoscale Advances</i> , 2020, 2, 746-754. | 4.6 | 70 |
| 69 | Comprehensive Insight into the Mechanism, Material Selection and Performance Evaluation of Supercapatteries. <i>Nano-Micro Letters</i> , 2020, 12, 85. | 27.0 | 164 |
| 70 | Triboelectric nanogenerators from reused plastic: An approach for vehicle security alarming and tire motion monitoring in rover. <i>Applied Materials Today</i> , 2020, 19, 100625. | 4.3 | 30 |
| 71 | Aloe vera: A tropical desert plant to harness the mechanical energy by triboelectric and piezoelectric approaches. <i>Nano Energy</i> , 2020, 73, 104767. | 16.0 | 38 |
| 72 | Restricted lithiation into a layered V ₂ O ₅ cathode towards building "rocking-chair" type Li-ion batteries and beyond. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9483-9495. | 10.3 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Zeolitic Imidazole Framework: Metal-Organic Framework Subfamily Members for Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2020, 30, 1910162. | 14.9 | 94 |
| 74 | High energy symmetric supercapacitor based on mechanically delaminated few-layered MoS ₂ sheets in organic electrolyte. <i>Journal of Alloys and Compounds</i> , 2019, 771, 803-809. | 5.5 | 74 |
| 75 | Carbyne-enriched carbon anchored on nickel foam: A novel binder-free electrode for supercapacitor application. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 411-419. | 9.4 | 11 |
| 76 | A highly efficient 2D siloxene coated Ni foam catalyst for methane dry reforming and an effective approach to recycle the spent catalyst for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18950-18958. | 10.3 | 48 |
| 77 | Supercapacitive properties of amorphous MoS ₃ and crystalline MoS ₂ nanosheets in an organic electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2387-2395. | 6.0 | 24 |
| 78 | Fe ₂ O ₃ magnetic particles derived triboelectric-electromagnetic hybrid generator for zero-power consuming seismic detection. <i>Nano Energy</i> , 2019, 64, 103926. | 16.0 | 56 |
| 79 | Hierarchically Porous Nanostructured Nickel Phosphide with Carbon Particles Embedded by Dielectric Barrier Discharge Plasma Deposition as a Binder-Free Electrode for Hybrid Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14805-14814. | 6.7 | 24 |
| 80 | All edible materials derived biocompatible and biodegradable triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 65, 104016. | 16.0 | 103 |
| 81 | High performance self-charging supercapacitors using a porous PVDF-ionic liquid electrolyte sandwiched between two-dimensional graphene electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21693-21703. | 10.3 | 80 |
| 82 | Piezophototronic gated optofluidic logic computations empowering intrinsic reconfigurable switches. <i>Nature Communications</i> , 2019, 10, 4381. | 12.8 | 29 |
| 83 | Rational Combination of an Alabandite MnS Laminated Pyrrhotite Fe _{1-x} S Nanocomposite as a Superior Anode Material for High Performance Sodium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5921-5930. | 6.7 | 39 |
| 84 | A La-doped ZnO ultra-flexible flutter-piezoelectric nanogenerator for energy harvesting and sensing applications: a novel renewable source of energy. <i>Nanoscale</i> , 2019, 11, 14032-14041. | 5.6 | 34 |
| 85 | Copper molybdenum sulfide nanoparticles embedded on graphene sheets as advanced electrodes for wide temperature-tolerant supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1775-1784. | 6.0 | 29 |
| 86 | Two dimensional farnatinite sheets decorated on reduced graphene oxide: A novel electrode for high performance supercapacitors. <i>Journal of Power Sources</i> , 2019, 433, 126648. | 7.8 | 38 |
| 87 | Self-powered ferroelectric NTC thermistor based on bismuth titanate. <i>Nano Energy</i> , 2019, 62, 329-337. | 16.0 | 36 |
| 88 | Zero-power consuming intruder identification system by enhanced piezoelectricity of K _{0.5} Na _{0.5} NbO ₃ using substitutional doping of BTO NPs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7563-7571. | 5.5 | 32 |
| 89 | ZIF-8 Energy Harvester: Metal-Organic Framework: A Novel Material for Triboelectric Nanogenerator-Based Self-Powered Sensors and Systems (<i>Adv. Energy Mater.</i> 14/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970043. | 19.5 | 3 |
| 90 | A flexible piezoelectric composite nanogenerator based on doping enhanced lead-free nanoparticles. <i>Materials Letters</i> , 2019, 249, 73-76. | 2.6 | 58 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | A fully packed water-proof, humidity resistant triboelectric nanogenerator for transmitting Morse code. <i>Nano Energy</i> , 2019, 60, 850-856. | 16.0 | 95 |
| 92 | Mechanical energy harvesting properties of free-standing carbyne enriched carbon film derived from dehydrohalogenation of polyvinylidene fluoride. <i>Nano Energy</i> , 2019, 59, 453-463. | 16.0 | 24 |
| 93 | Sustainable Human-Machine Interactive Triboelectric Nanogenerator toward a Smart Computer Mouse. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7177-7182. | 6.7 | 42 |
| 94 | Metal-Organic Framework: A Novel Material for Triboelectric Nanogenerator-Based Self-Powered Sensors and Systems. <i>Advanced Energy Materials</i> , 2019, 9, 1803581. | 19.5 | 138 |
| 95 | Superior response in ZnO nanogenerator via interfaced heterojunction for novel smart gas purging system. <i>Extreme Mechanics Letters</i> , 2019, 26, 18-25. | 4.1 | 9 |
| 96 | Lead-free piezoelectric nanogenerator using lightweight composite films for harnessing biomechanical energy. <i>Composites Part B: Engineering</i> , 2019, 161, 608-616. | 12.0 | 39 |
| 97 | Enhanced sodium-ion storage capability of P2/O3 biphase by Li-ion substitution into P2-type Na _{0.5} Fe _{0.5} Mn _{0.5} O ₂ layered cathode. <i>Electrochimica Acta</i> , 2019, 296, 1027-1034. | 5.2 | 36 |
| 98 | Understanding the Thermal Treatment Effect of Two-Dimensional Siloxene Sheets and the Origin of Superior Electrochemical Energy Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 624-633. | 8.0 | 74 |
| 99 | Copper tungsten sulfide anchored on Ni-foam as a high-performance binder free negative electrode for asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 359, 409-418. | 12.7 | 114 |
| 100 | Phase inversion enabled energy scavenger: A multifunctional triboelectric nanogenerator as benzene monitoring system. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 590-598. | 7.8 | 36 |
| 101 | Novel Interfacial Bulk Heterojunction Technique for Enhanced Response in ZnO Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6078-6088. | 8.0 | 29 |
| 102 | Two-dimensional molybdenum diselenide nanosheets as a novel electrode material for symmetric supercapacitors using organic electrolyte. <i>Electrochimica Acta</i> , 2019, 295, 591-598. | 5.2 | 54 |
| 103 | Blue TiO ₂ nanosheets as a high-performance electrode material for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 62-70. | 9.4 | 82 |
| 104 | Nanostructured ternary metal chalcogenide-based binder-free electrodes for high energy density asymmetric supercapacitors. <i>Nano Energy</i> , 2019, 57, 307-316. | 16.0 | 147 |
| 105 | A sliding mode contact electrification based triboelectric-electromagnetic hybrid generator for small-scale biomechanical energy harvesting. <i>Micro and Nano Systems Letters</i> , 2019, 7, . | 3.7 | 23 |
| 106 | A High Efficacy Self-Charging MoSe ₂ Solid-State Supercapacitor Using Electrospun Nanofibrous Piezoelectric Separator with Ionogel Electrolyte. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800055. | 3.7 | 82 |
| 107 | Mechanochemical Reinforcement of Graphene Sheets into Alkyd Resin Matrix for the Development of Electrically Conductive Paints. <i>ChemNanoMat</i> , 2018, 4, 568-574. | 2.8 | 12 |
| 108 | Hydrothermally prepared δ -MnSe nanoparticles as a new pseudocapacitive electrode material for supercapacitor. <i>Electrochimica Acta</i> , 2018, 268, 403-410. | 5.2 | 84 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Piezo-Phototronic Effect: Regulation of Charge Carrier Dynamics in ZnO Microarchitecture-Based UV/Visible Photodetector via Photonic-Strain Induced Effects (Small 11/2018). <i>Small</i> , 2018, 14, 1870048. | 10.0 | 0 |
| 110 | Layered farnatinite nanoplates as an advanced pseudocapacitive electrode material for supercapacitor applications. <i>Electrochimica Acta</i> , 2018, 275, 110-118. | 5.2 | 30 |
| 111 | Battery-Free Electronic Smart Toys: A Step toward the Commercialization of Sustainable Triboelectric Nanogenerators. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6110-6116. | 6.7 | 39 |
| 112 | Two-dimensional siloxene nanosheets: novel high-performance supercapacitor electrode materials. <i>Energy and Environmental Science</i> , 2018, 11, 1595-1602. | 30.8 | 232 |
| 113 | Trash to energy: A facile, robust and cheap approach for mitigating environment pollutant using household triboelectric nanogenerator. <i>Applied Energy</i> , 2018, 219, 338-349. | 10.1 | 79 |
| 114 | Observation of anomalous transport characteristics in graphene-oxide thinfilm. <i>Materials Chemistry and Physics</i> , 2018, 213, 89-94. | 4.0 | 6 |
| 115 | Regulation of Charge Carrier Dynamics in ZnO Microarchitecture-Based UV/Visible Photodetector via Photonic-Strain Induced Effects. <i>Small</i> , 2018, 14, e1703044. | 10.0 | 29 |
| 116 | Hierarchical porous flower-like nickel cobaltite nanosheets as a binder-less electrode for supercapacitor application with ultra-high capacitance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 181-187. | 5.8 | 24 |
| 117 | Electrodeposited molybdenum selenide sheets on nickel foam as a binder-free electrode for supercapacitor application. <i>Electrochimica Acta</i> , 2018, 265, 514-522. | 5.2 | 77 |
| 118 | Exalted Electric Output via Piezoelectric-Triboelectric Coupling/Sustainable Butterfly Wing Structure Type Multiunit Hybrid Nanogenerator. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1919-1933. | 6.7 | 46 |
| 119 | Fabrication of high energy Li-ion hybrid capacitor using manganese hexacyanoferrate nanocubes and graphene electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 134-142. | 5.8 | 29 |
| 120 | Self-powered wire type UV sensor using in-situ radial growth of BaTiO ₃ and TiO ₂ nanostructures on human hair sized single Ti-wire. <i>Chemical Engineering Journal</i> , 2018, 334, 1729-1739. | 12.7 | 24 |
| 121 | Supercapacitive properties of activated carbon electrode using ammonium based proton conducting electrolytes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1667-1674. | 7.1 | 24 |
| 122 | Adaptable piezoelectric hemispherical composite strips using a scalable groove technique for a self-powered muscle monitoring system. <i>Nanoscale</i> , 2018, 10, 907-913. | 5.6 | 43 |
| 123 | Role of Cationic Oxidation States to Enhance the Electroactive Phase of Poly(vinylidene Fluoride) and its Energy Harvesting Performance. <i>ChemElectroChem</i> , 2018, 5, 3533-3539. | 3.4 | 3 |
| 124 | Hybrid Structures for Piezoelectric Nanogenerators: Fabrication Methods, Energy Generation, and Self-Powered Applications. , 2018, , . | | 1 |
| 125 | Photoactive piezoelectric energy harvester driven by antimony sulfoiodide (SbSI): A AVBVICVII class ferroelectric-semiconductor compound. <i>Nano Energy</i> , 2018, 50, 256-265. | 16.0 | 42 |
| 126 | Copper molybdenum sulfide: A novel pseudocapacitive electrode material for electrochemical energy storage device. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12222-12232. | 7.1 | 66 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Direct In Situ Hybridized Interfacial Quantification to Stimulate Highly Flexile Self-Powered Photodetector. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12177-12184. | 3.1 | 16 |
| 128 | High-energy aqueous Li-ion hybrid capacitor based on metal-organic-framework-mimicking insertion-type copper hexacyanoferrate and capacitive-type graphitic carbon electrodes. <i>Journal of Alloys and Compounds</i> , 2018, 765, 1041-1048. | 5.5 | 38 |
| 129 | pH-sensitive tangeretin-ZnO quantum dots exert apoptotic and anti-metastatic effects in metastatic lung cancer cell line. <i>Materials Science and Engineering C</i> , 2018, 92, 477-488. | 7.3 | 23 |
| 130 | Copper molybdenum sulfide anchored nickel foam: a high performance, binder-free, negative electrode for supercapacitors. <i>Nanoscale</i> , 2018, 10, 13883-13888. | 5.6 | 59 |
| 131 | Sustainable yarn type-piezoelectric energy harvester as an eco-friendly, cost-effective battery-free breath sensor. <i>Applied Energy</i> , 2018, 228, 1767-1776. | 10.1 | 43 |
| 132 | Biocompatible Collagen Nanofibrils: An Approach for Sustainable Energy Harvesting and Battery-Free Humidity Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18650-18656. | 8.0 | 86 |
| 133 | A microcrystalline cellulose ingrained polydimethylsiloxane triboelectric nanogenerator as a self-powered locomotion detector. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1810-1815. | 5.5 | 60 |
| 134 | A sustainable freestanding biomechanical energy harvesting smart backpack as a portable-wearable power source. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1488-1493. | 5.5 | 62 |
| 135 | Titanium carbide sheet based high performance wire type solid state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5726-5736. | 10.3 | 140 |
| 136 | Piezoelectric BaTiO ₃ /alginate spherical composite beads for energy harvesting and self-powered wearable flexion sensor. <i>Composites Science and Technology</i> , 2017, 142, 65-78. | 7.8 | 71 |
| 137 | Electrical transport properties of two-dimensional MoS ₂ nanosheets synthesized by novel method. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 81-86. | 4.0 | 18 |
| 138 | Scavenging Biomechanical Energy Using High-Performance, Flexible BaTiO ₃ Nanocube/PDMS Composite Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4730-4738. | 6.7 | 92 |
| 139 | A smart mobile pouch as a biomechanical energy harvester towards self-powered smart wireless power transfer applications. <i>Nanoscale</i> , 2017, 9, 9818-9824. | 5.6 | 50 |
| 140 | Liquid electrolyte mediated flexible pouch-type hybrid supercapacitor based on binderless core-shell nanostructures assembled with honeycomb-like porous carbon. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11100-11113. | 10.3 | 94 |
| 141 | Harnessing low frequency-based energy using a K _{0.5} Na _{0.5} NbO ₃ (KNN) pigmented piezoelectric paint system. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5501-5508. | 5.5 | 20 |
| 142 | Enhanced electroactive β -phase of the sonication-process-derived PVDF-activated carbon composite film for efficient energy conversion and a battery-free acceleration sensor. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4833-4844. | 5.5 | 70 |
| 143 | Elucidation of the unsymmetrical effect on the piezoelectric and semiconducting properties of Cd-doped 1D-ZnO nanorods. <i>Journal of Materials Chemistry C</i> , 2017, 5, 415-426. | 5.5 | 30 |
| 144 | Ruthenium sulfide nanoparticles as a new pseudocapacitive material for supercapacitor. <i>Electrochimica Acta</i> , 2017, 227, 85-94. | 5.2 | 175 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Direct detection of cysteine using functionalized BaTiO ₃ nanoparticles film based self-powered biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 91, 203-210. | 10.1 | 45 |
| 146 | A flexible, planar energy harvesting device for scavenging road side waste mechanical energy via the synergistic piezoelectric response of K _{0.5} Na _{0.5} NbO ₃ -BaTiO ₃ /PVDF composite films. <i>Nanoscale</i> , 2017, 9, 15122-15130. | 5.6 | 62 |
| 147 | A High-Energy Aqueous Sodium-Ion Capacitor with Nickel Hexacyanoferrate and Graphene Electrodes. <i>ChemElectroChem</i> , 2017, 4, 3302-3308. | 3.4 | 49 |
| 148 | Unconventional active biosensor made of piezoelectric BaTiO ₃ nanoparticles for biomolecule detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 1180-1187. | 7.8 | 26 |
| 149 | Sustainable Biomechanical Energy Scavenger toward Self-Reliant Kids™ Interactive Battery-Free Smart Puzzle. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7310-7316. | 6.7 | 37 |
| 150 | Fabrication of High-Performance Aqueous Li-Ion Hybrid Capacitor with LiMn ₂ O ₄ and Graphene. <i>ChemElectroChem</i> , 2017, 4, 396-403. | 3.4 | 45 |
| 151 | Worm structure piezoelectric energy harvester using ionotropic gelation of barium titanate-calcium alginate composite. <i>Energy</i> , 2017, 118, 1146-1155. | 8.8 | 28 |
| 152 | Effective use of an idle carbon-deposited catalyst for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12571-12582. | 10.3 | 32 |
| 153 | Fabrication of PDMS-based triboelectric nanogenerator for self-sustained power source application. <i>International Journal of Energy Research</i> , 2016, 40, 288-297. | 4.5 | 51 |
| 154 | Self powered pH sensor using piezoelectric composite worm structures derived by ionotropic gelation approach. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 534-544. | 7.8 | 18 |
| 155 | Human Interactive Triboelectric Nanogenerator as a Self-Powered Smart Seat. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9692-9699. | 8.0 | 61 |
| 156 | Designing ZnS decorated reduced graphene-oxide nanohybrid via microwave route and their application in photocatalysis. <i>Journal of Alloys and Compounds</i> , 2016, 683, 456-462. | 5.5 | 70 |
| 157 | Inhibitory Effect of Zinc Sulfide Nanoparticles Towards Breast Cancer Stem Cell Migration and Invasion. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 329-336. | 1.1 | 16 |
| 158 | Mechanically delaminated few layered MoS ₂ nanosheets based high performance wire type solid-state symmetric supercapacitors. <i>Journal of Power Sources</i> , 2016, 321, 112-119. | 7.8 | 182 |
| 159 | BaTiO ₃ nanoparticles as biomaterial film for self-powered glucose sensor application. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 395-403. | 7.8 | 49 |
| 160 | Enhanced electrochemical performances of graphene based solid-state flexible cable type supercapacitor using redox mediated polymer gel electrolyte. <i>Carbon</i> , 2016, 105, 638-648. | 10.3 | 104 |
| 161 | Growth of CuO/ZnO Nanobranch Photoelectrode with Enhanced Stability for Solar Hydrogen Generation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10541-10547. | 0.9 | 11 |
| 162 | Facile fabrication and photoelectrochemical properties of a CuO nanorod photocathode with a ZnO nanobranch protective layer. <i>RSC Advances</i> , 2016, 6, 103049-103056. | 3.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 163 | Hierarchical copper selenide nanoneedles grown on copper foil as a binder free electrode for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14830-14835. | 7.1 | 89 |
| 164 | Synthesis and characterization of NiCo ₂ O ₄ nanoplates as efficient electrode materials for electrochemical supercapacitors. <i>Applied Surface Science</i> , 2016, 370, 452-458. | 6.1 | 60 |
| 165 | In-situ chemical oxidative polymerization of aniline monomer in the presence of cobalt molybdate for supercapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 163-168. | 5.8 | 32 |
| 166 | Influence of Morphology and Common Oxidants on the Photocatalytic Property of SnWO ₄ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2541-2547. | 0.9 | 10 |
| 167 | Improved electrochemical performances of binder-free CoMoO ₄ nanoplate arrays@Ni foam electrode using redox additive electrolyte. <i>Journal of Power Sources</i> , 2016, 306, 378-386. | 7.8 | 183 |
| 168 | Highly stable hierarchical p-CuO/ZnO nanorod/nanobranched photoelectrode for efficient solar energy conversion. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2253-2262. | 7.1 | 64 |
| 169 | Designing two dimensional nanoarchitected MoS ₂ sheets grown on Mo foil as a binder free electrode for supercapacitors. <i>Electrochimica Acta</i> , 2016, 190, 305-312. | 5.2 | 159 |
| 170 | Graphdiyne nanostructures as a new electrode material for electrochemical supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1672-1678. | 7.1 | 124 |
| 171 | Vanadium Pentoxide/Reduced Graphene Oxide Composite as an Efficient Electrode Material for High-Performance Supercapacitors and Self-Powered Systems. <i>Energy Technology</i> , 2015, 3, 913-924. | 3.8 | 32 |
| 172 | Thermally reduced graphene oxide-coated fabrics for flexible supercapacitors and self-powered systems. <i>Nano Energy</i> , 2015, 15, 587-597. | 16.0 | 79 |
| 173 | Preparation of ZnO nanopaint for marine antifouling applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 39-42. | 5.8 | 60 |
| 174 | Graphene-oxide (GO)-Fe ³⁺ hybrid nanosheets with effective sonocatalytic degradation of Reactive Red 120 and study of their kinetics mechanism. <i>Ultrasonics Sonochemistry</i> , 2015, 24, 123-131. | 8.2 | 46 |
| 175 | Microwave irradiation on a-axis oriented Y123/Pr123 two-stacked Josephson junctions device. <i>Current Applied Physics</i> , 2015, 15, 569-573. | 2.4 | 2 |
| 176 | Electrochemical performance of an asymmetric supercapacitor based on graphene and cobalt molybdate electrodes. <i>RSC Advances</i> , 2015, 5, 16319-16327. | 3.6 | 72 |
| 177 | Highly porous piezoelectric PVDF membrane as effective lithium ion transfer channels for enhanced self-charging power cell. <i>Nano Energy</i> , 2015, 14, 77-86. | 16.0 | 95 |
| 178 | Gate-Tunable Photoresponse of Defective Graphene: from Ultraviolet to Visible. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2171-2177. | 8.0 | 17 |
| 179 | Defect-induced metallic-to-semiconducting transition in multilayer graphene. <i>RSC Advances</i> , 2015, 5, 16821-16827. | 3.6 | 10 |
| 180 | An enzymatic biosensor for hydrogen peroxide based on one-pot preparation of CeO ₂ -reduced graphene oxide nanocomposite. <i>RSC Advances</i> , 2015, 5, 12937-12943. | 3.6 | 70 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 181 | Piezoelectric-Driven Self-Charging Supercapacitor Power Cell. ACS Nano, 2015, 9, 4337-4345. | 14.6 | 226 |
| 182 | Hydrothermal synthesis, characterization and electrochemical properties of cobalt sulfide nanoparticles. Materials Science in Semiconductor Processing, 2015, 40, 781-786. | 4.0 | 37 |
| 183 | Removal of heavy metal ions from pharma-effluents using graphene-oxide nanosorbents and study of their adsorption kinetics. Journal of Industrial and Engineering Chemistry, 2015, 30, 14-19. | 5.8 | 154 |
| 184 | Facile fabrication of NiS and a reduced graphene oxide hybrid film for nonenzymatic detection of glucose. RSC Advances, 2015, 5, 44346-44352. | 3.6 | 55 |
| 185 | Flexible, Hybrid Piezoelectric Film (BaTi _{1-x} Zr _x O ₃)/PVDF Nanogenerator as a Self-Powered Fluid Velocity Sensor. ACS Applied Materials & Interfaces, 2015, 7, 9831-9840. | 8.0 | 231 |
| 186 | Mechanochemical preparation of graphene nanosheets and their supercapacitor applications. Journal of Industrial and Engineering Chemistry, 2015, 32, 39-43. | 5.8 | 30 |
| 187 | Preparation of Copper Sulfide Nanoparticles by Sonochemical Method and Study on Their Electrochemical Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 4409-4413. | 0.9 | 44 |
| 188 | Graphdiyne-ZnO Nanohybrids as an Advanced Photocatalytic Material. Journal of Physical Chemistry C, 2015, 119, 22057-22065. | 3.1 | 189 |
| 189 | Fabrication of an eco-friendly composite nanogenerator for self-powered photosensor applications. Carbon, 2015, 84, 56-65. | 10.3 | 43 |
| 190 | A promising electrochemical sensing platform based on ternary composite of polyaniline-Fe ₂ O ₃ -reduced graphene oxide for sensitive hydroquinone determination. Chemical Engineering Journal, 2015, 259, 594-602. | 12.7 | 85 |
| 191 | Gram Scale Preparation, Characterization and Electrochemical Properties of MoO ₃ Nanoplates. Science of Advanced Materials, 2015, 7, 1247-1252. | 0.7 | 5 |
| 192 | One-pot hydrothermal synthesis, characterization and electrochemical properties of CuS nanoparticles towards supercapacitor applications. Materials Research Express, 2014, 1, 035006. | 1.6 | 39 |
| 193 | Preparation of TiO ₂ nanopaint using ball milling process and investigation on its antibacterial properties. Materials Express, 2014, 4, 393-399. | 0.5 | 20 |
| 194 | Enhanced supercapacitor performance using hierarchical TiO ₂ nanorod/Co(OH) ₂ nanowall array electrodes. Electrochimica Acta, 2014, 136, 105-111. | 5.2 | 40 |
| 195 | Graphene oxide nanopaint. Carbon, 2014, 72, 328-337. | 10.3 | 163 |
| 196 | Synthesis, characterization, and electrochemical properties of CoMoO ₄ nanostructures. International Journal of Hydrogen Energy, 2014, 39, 5186-5193. | 7.1 | 114 |
| 197 | Plasma-induced photoresponse in few-layer graphene. Carbon, 2014, 73, 25-33. | 10.3 | 8 |
| 198 | Effect of oxygenated functional groups on the photoluminescence properties of graphene-oxide nanosheets. Materials Science in Semiconductor Processing, 2014, 19, 174-178. | 4.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 199 | Enhanced photocatalytic efficacy of organic dyes using I^2 -tin tungstate-reduced graphene oxide nanocomposites. <i>Materials Chemistry and Physics</i> , 2014, 145, 108-115. | 4.0 | 58 |
| 200 | Supercapacitive properties of hydrothermally synthesized sphere like MoS ₂ nanostructures. <i>Materials Research Bulletin</i> , 2014, 50, 499-502. | 5.2 | 234 |
| 201 | Enhanced activity of a hydrothermally synthesized mesoporous MoS ₂ nanostructure for high performance supercapacitor applications. <i>New Journal of Chemistry</i> , 2014, 38, 2379. | 2.8 | 229 |
| 202 | A highly sensitive electrochemical sensor for nitrite detection based on Fe ₂ O ₃ nanoparticles decorated reduced graphene oxide nanosheets. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 22-28. | 20.2 | 296 |
| 203 | Nanostructured molybdenum oxide-based antibacterial paint: effective growth inhibition of various pathogenic bacteria. <i>Nanotechnology</i> , 2014, 25, 315101. | 2.6 | 73 |
| 204 | Hierarchically structured TiO ₂ @MnO ₂ nanowall arrays as potential electrode material for high-performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12201-12212. | 7.1 | 57 |
| 205 | Toxicity of Nano Molybdenum Trioxide toward Invasive Breast Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2980-2986. | 8.0 | 102 |
| 206 | Sonochemical synthesis, characterization, and electrochemical properties of MnMoO ₄ nanorods for supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2014, 147, 836-842. | 4.0 | 83 |
| 207 | Self-Powered pH Sensor Based on a Flexible Organic-Inorganic Hybrid Composite Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13716-13723. | 8.0 | 110 |
| 208 | Novel Cu/CuO/ZnO hybrid hierarchical nanostructures for non-enzymatic glucose sensor application. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 90-95. | 3.8 | 86 |
| 209 | One pot hydrothermal growth of hierarchical nanostructured Ni ₃ S ₂ on Ni foam for supercapacitor application. <i>Chemical Engineering Journal</i> , 2014, 251, 116-122. | 12.7 | 287 |
| 210 | Growth of 2D ZnO Nanowall for Energy Harvesting Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8831-8836. | 3.1 | 56 |
| 211 | Surface chemistry of cerium oxide nanocubes: Toxicity against pathogenic bacteria and their mechanistic study. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3513-3517. | 5.8 | 56 |
| 212 | ZnO Nanostructures in Vapor Transport Growth Method. <i>Science of Advanced Materials</i> , 2014, 6, 336-342. | 0.7 | 6 |
| 213 | Plasma Assisted Synthesis of Graphene Nanosheets and Their Supercapacitor Applications. <i>Science of Advanced Materials</i> , 2014, 6, 349-353. | 0.7 | 24 |
| 214 | An Approach to Use a Raw Single Crystal Whisker as Intrinsic Josephson Junctions Stack. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2709-2712. | 1.8 | 0 |
| 215 | An investigation on high-temperature electrical transport properties of graphene-oxide nano-thinfilms. <i>Applied Surface Science</i> , 2013, 280, 903-908. | 6.1 | 17 |
| 216 | Self-Induced Gate Dielectric for Graphene Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6443-6446. | 8.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | Investigation of UV photoresponse property of Al, N co-doped ZnO film. Journal of Alloys and Compounds, 2013, 580, 538-543. | 5.5 | 69 |
| 218 | Improved activity of a graphene/TiO ₂ hybrid electrode in an electrochemical supercapacitor. Carbon, 2013, 63, 434-445. | 10.3 | 276 |
| 219 | New function of molybdenum trioxide nanoplates: Toxicity towards pathogenic bacteria through membrane stress. Colloids and Surfaces B: Biointerfaces, 2013, 112, 521-524. | 5.0 | 74 |
| 220 | Fabrication of a ZnO nanogenerator for eco-friendly biomechanical energy harvesting. RSC Advances, 2013, 3, 16646. | 3.6 | 85 |
| 221 | Structural and corrosion behaviour of bilayer and alloyed films of Cu-Ni. , 2013, , . | | 1 |
| 222 | Fabrication of reduced graphene oxide/TiO ₂ nanorod/reduced graphene oxide hybrid nanostructures as electrode materials for supercapacitor applications. CrystEngComm, 2013, 15, 10222. | 2.6 | 103 |
| 223 | Graphene nanosheets: Ultrasound assisted synthesis and characterization. Ultrasonics Sonochemistry, 2013, 20, 644-649. | 8.2 | 228 |
| 224 | The chemical and structural analysis of graphene oxide with different degrees of oxidation. Carbon, 2013, 53, 38-49. | 10.3 | 1,549 |
| 225 | Facile preparation and electrochemical characterization of graphene/ZnO nanocomposite for supercapacitor applications. Materials Chemistry and Physics, 2013, 140, 405-411. | 4.0 | 114 |
| 226 | Polypyrrole/poly(3,4-ethylenedioxythiophene)/Ag (PPy/PEDOT/Ag) nanocomposite films for label-free electrochemical DNA sensing. Biosensors and Bioelectronics, 2013, 47, 133-140. | 10.1 | 108 |
| 227 | Vertically aligned TiO ₂ nanorod arrays for electrochemical supercapacitor. Journal of Alloys and Compounds, 2013, 561, 262-267. | 5.5 | 102 |
| 228 | Growth, characterization and electrochemical properties of hierarchical CuO nanostructures for supercapacitor applications. Materials Research Bulletin, 2013, 48, 3136-3139. | 5.2 | 97 |
| 229 | Facile synthesis of graphene/ZnO nanocomposites by low temperature hydrothermal method. Materials Research Bulletin, 2013, 48, 878-883. | 5.2 | 72 |
| 230 | ZnO Piezoelectric Fine Wire Gated Graphene Oxide Field Effect Transistor. Journal of Nanoscience and Nanotechnology, 2013, 13, 3573-3576. | 0.9 | 2 |
| 231 | Investigation of Transfer Characteristics of High Performance Graphene Flakes. Journal of Nanoscience and Nanotechnology, 2013, 13, 3515-3518. | 0.9 | 5 |
| 232 | Graphene Oxide Nanosheets for Corrosion-Inhibiting Coating. Science of Advanced Materials, 2013, 5, 406-410. | 0.7 | 25 |
| 233 | Thickness-Dependent Electrical Transport Properties of Graphene. Science of Advanced Materials, 2013, 5, 542-548. | 0.7 | 9 |
| 234 | Nanostructured TiO ₂ /TiN Multilayer Coatings on AISI 316L Stainless Steel for Biomedical Applications. Science of Advanced Materials, 2013, 5, 1168-1178. | 0.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Observation of Nonvolatile Resistive Memory Switching Characteristics in Ag/Graphene-Oxide/Ag Devices. Journal of Nanoscience and Nanotechnology, 2012, 12, 8522-8525. | 0.9 | 11 |
| 236 | Resistive Switching Behaviors of HfO ₂ Thin Films by Sol-Gel Spin Coating for Nonvolatile Memory Applications. Applied Physics Express, 2012, 5, 085803. | 2.4 | 26 |
| 237 | A One Step Hydrothermal Approach for the Improved Synthesis of Graphene Nanosheets. Current Nanoscience, 2012, 8, 934-938. | 1.2 | 28 |
| 238 | Antibacterial Activity of Graphene Oxide Nanosheets. Science of Advanced Materials, 2012, 4, 1111-1117. | 0.7 | 116 |
| 239 | Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. Journal of Physical Chemistry C, 2012, 116, 17280-17287. | 3.1 | 377 |
| 240 | Antibacterial activity of MgO nanoparticles based on lipid peroxidation by oxygen vacancy. Journal of Nanoparticle Research, 2012, 14, 1. | 1.9 | 191 |
| 241 | Synthesis and characterization of HfO ₂ nanoparticles by sonochemical approach. Journal of Alloys and Compounds, 2012, 544, 115-119. | 5.5 | 69 |
| 242 | Diameter dependent photocatalytic activity of ZnO nanowires grown by vapor transport technique. Chemical Physics Letters, 2012, 539-540, 83-88. | 2.6 | 54 |
| 243 | Mechanistic investigation on the toxicity of MgO nanoparticles toward cancer cells. Journal of Materials Chemistry, 2012, 22, 24610. | 6.7 | 221 |
| 244 | An investigation of the electrical properties of p-type Al:N Co-doped ZnO thin films. Journal of the Korean Physical Society, 2012, 61, 1737-1741. | 0.7 | 11 |
| 245 | Novel synthesis of hafnium oxide nanoparticles by precipitation method and its characterization. Materials Research Bulletin, 2012, 47, 2680-2684. | 5.2 | 65 |
| 246 | Focused Ion Beam Based Three-Dimensional Nano-Machining. , 2012, , . | | 1 |
| 247 | Graphene oxide nanostructures modified multifunctional cotton fabrics. Applied Nanoscience (Switzerland), 2012, 2, 119-126. | 3.1 | 106 |
| 248 | An investigation of the electrical transport properties of graphene-oxide thin films. Materials Chemistry and Physics, 2012, 132, 29-33. | 4.0 | 203 |
| 249 | Facile synthesis of hafnium oxide nanoparticles via precipitation method. Materials Letters, 2012, 75, 215-217. | 2.6 | 35 |
| 250 | Enhanced photocatalytic activity of Cu-doped ZnO nanorods. Solid State Communications, 2012, 152, 375-380. | 1.9 | 248 |
| 251 | Investigation of Raman and photoluminescence studies of reduced graphene oxide sheets. Applied Physics A: Materials Science and Processing, 2012, 106, 501-506. | 2.3 | 279 |
| 252 | Application of ZnO Nanowires for the Photodegradation of Resazurin. , 2011, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 253 | Microwave Dependence of a -Axis Oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Film. IEEE Transactions on Applied Superconductivity, 2011, 21, 602-605. | 1.7 | 3 |
| 254 | Resistive switching behaviors in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+d}$ (Bi-2212) stacks. Journal of Applied Physics, 2011, 109, 07E147. | 2.5 | 0 |
| 255 | Fabrication and Characteristics of Submicron Stacked-Junctions on Thin Graphite Flakes. Journal of Nanoscience and Nanotechnology, 2011, 11, 1405-1408. | 0.9 | 2 |
| 256 | Temperature Dependence of Transport Anisotropy of Planar-Type Graphite Nanostructures Fabricated by Focused Ion Beam. Journal of Nanoscience and Nanotechnology, 2011, 11, 296-300. | 0.9 | 3 |
| 257 | Nanoscale Fabrication of a Three-Dimensional Stack of Graphene Layers Using a Focused Ion Beam. Journal of Nanoscience and Nanotechnology, 2011, 11, 5909-5914. | 0.9 | 3 |
| 258 | Temperature dependent transfer characteristics of graphene field effect transistors fabricated using photolithography. Current Applied Physics, 2011, 11, S381-S384. | 2.4 | 16 |
| 259 | Electrical characterization of a -axis oriented Y123 thin film grown using pulsed laser deposition. Current Applied Physics, 2011, 11, S79-S81. | 2.4 | 1 |
| 260 | Enhanced photodynamic efficacy and efficient delivery of Rose Bengal using nanostructured poly(amidoamine) dendrimers: potential application in photodynamic therapy of cancer. Cancer Nanotechnology, 2011, 2, 95-103. | 3.7 | 42 |
| 261 | Fabrication of nanoscale three-dimensional graphite stacked-junctions by focused-ion-beam and observation of anomalous transport characteristics. Carbon, 2011, 49, 2766-2772. | 10.3 | 48 |
| 262 | Investigation of electrical transport characteristics of nanoscale stacks fabricated on thin graphite layer. Thin Solid Films, 2011, 519, 7095-7099. | 1.8 | 3 |
| 263 | Current Biased Resistive Switching in ZnO Whiskers. Japanese Journal of Applied Physics, 2011, 50, 04DJ01. | 1.5 | 4 |
| 264 | Investigation of critical current density of submicron intrinsic Josephson junctions of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8 + \delta$ at 30 K. Superconductor Science and Technology, 2011, 24, 075027. | 3.5 | 3 |
| 265 | Enhancement in Thermal and Tensile Properties of $\text{ZrO}_2/\text{Poly}(\text{Vinyl Alcohol})$ Nanocomposite Film. Materials Express, 2011, 1, 329-335. | 0.5 | 24 |
| 266 | Fabrication and Characteristics of Nanoscale Stacked-Tunneling-Junctions on Graphite Flake Using Focused Ion Beam. Japanese Journal of Applied Physics, 2011, 50, 06GE06. | 1.5 | 1 |
| 267 | Graphene oxide as a photocatalytic material. Applied Physics Letters, 2011, 98, . | 3.3 | 299 |
| 268 | Fabrication and Characteristics of Nanoscale Stacked-Tunneling-Junctions on Graphite Flake Using Focused Ion Beam. Japanese Journal of Applied Physics, 2011, 50, 06GE06. | 1.5 | 0 |
| 269 | Fabrication and characteristics of artificial SNS junctions using three axes orientation-controlled $\pm a$ -axis oriented Y123/Pr123 multilayer films. Journal of Physics: Conference Series, 2010, 234, 012044. | 0.4 | 2 |
| 270 | Fabrication of three-terminal devices using stacked Josephson junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+d}$ (Bi-2212). Physica C: Superconductivity and Its Applications, 2010, 470, S1018-S1020. | 1.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 271 | Characterization of Submicron Sized Josephson Junction Fabricated in a Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _{10+δ} (Bi-2223) Single Crystal Whisker. Journal of Superconductivity and Novel Magnetism, 2010, 23, 811-814. | 1.8 | 4 |
| 272 | Anomalous Change of Transport Characteristics of Graphite Planar-Type Micro-structures Fabricated by Focused Ion Beam. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1193-1196. | 1.8 | 2 |
| 273 | Suppression of Critical Current in Submicron Intrinsic Josephson Junction Fabricated in a Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _{10+δ} Single Crystal Whisker. Japanese Journal of Applied Physics, 2010, 49, 04DJ13. | 1.5 | 3 |
| 274 | Colossal electroresistance in Sm _{0.55} Sr _{0.45} MnO ₃ . Journal of Alloys and Compounds, 2010, 508, L32-L35. | 5.5 | 30 |
| 275 | Periodic Peak Modulations in Bi-2212 Stacks Coupled to a Submicrometer Hole. IEEE Transactions on Applied Superconductivity, 2009, 19, 191-194. | 1.7 | 1 |
| 276 | Growth of Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _{10+δ} (Bi-2223) Single Crystal Whiskers. IEEE Transactions on Applied Superconductivity, 2009, 19, 3030-3033. | 1.7 | 2 |
| 277 | Observation of diode-like characteristics in planar-type structures of graphite flakes. Journal of Physics: Conference Series, 2009, 150, 022039. | 0.4 | 2 |
| 278 | Development of Focused Ion Beam Machining Systems for Fabricating Three-Dimensional Structures. Japanese Journal of Applied Physics, 2008, 47, 5120-5122. | 1.5 | 3 |
| 279 | Flux-flow behaviors on a Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} (Bi-2212) stack. Journal of Applied Physics, 2008, 103, 07C716. | 2.5 | 5 |
| 280 | CRITICAL CURRENT DEPENDENCE OF STACKED JOSEPHSON JUNCTIONS DC SQUID IN Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . International Journal of Modern Physics B, 2007, 21, 3270-3273. | 2.0 | 1 |
| 281 | Development of focused-ion-beam (FIB) machining systems for fabricating 3-D micro- and nano-structures. , 2007, , . | | 0 |
| 282 | Growth of Layered Single Crystal Whiskers for Fabricating Single Electron Tunneling (SET) Devices. , 2007, , . | | 0 |
| 283 | Oscillations of Josephson-Vortex Flow Resistance in Narrow Intrinsic Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2005, 15, 912-915. | 1.7 | 13 |
| 284 | Transport Characteristics in c-Axis-oriented La _{2-x} Sr _x CuO ₄ (LSCO) Single Crystals. IEEE Transactions on Applied Superconductivity, 2005, 15, 3782-3785. | 1.7 | 5 |
| 285 | Sub-micron sized intrinsic Josephson junctions in YBa ₂ Cu ₃ O _{7-δ} whiskers. Superconductor Science and Technology, 2005, 18, 1159-1162. | 3.5 | 14 |
| 286 | Characteristics of two-stacked intrinsic Josephson junctions with a submicron loop on a Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} (Bi-2212) single crystal whisker. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1401-1405. | 1.2 | 19 |
| 287 | Title is missing!. Journal of Low Temperature Physics, 2003, 131, 533-537. | 1.4 | 17 |
| 288 | Intrinsic Josephson junctions in c-axis-oriented La _{1.85} Sr _{0.15} CuO ₄ thin films. Journal of Applied Physics, 2003, 94, 2534-2537. | 2.5 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 289 | Junction parameter control of Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ stacked junctions by annealing. Applied Physics Letters, 2003, 82, 769-771. | 3.3 | 39 |
| 290 | Electrical transport characteristics of Bi ₂ Sr ₂ CaCu ₂ O ₈ + \hat{A} stacked junctions with control of the carrier density. Superconductor Science and Technology, 2003, 16, 1365-1367. | 3.5 | 3 |
| 291 | Development of 3D Focused-Ion-Beam (FIB) Etching Methods for Fabricating Micro- and Nanodevices. Japanese Journal of Applied Physics, 2002, 41, 4283-4286. | 1.5 | 6 |
| 292 | Magnetic field dependence of micromachined Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ intrinsic Josephson junctions with a submicron loop. Journal of Applied Physics, 2002, 91, 8495. | 2.5 | 20 |
| 293 | New approach for fabricating submicron scale intrinsic Josephson junctions using high-T _c superconducting materials. Physica C: Superconductivity and Its Applications, 2001, 362, 150-155. | 1.2 | 18 |
| 294 | Interlayer tunneling of quasiparticles and Cooper pairs in Bi-2212 from experiments on small stacks. Physica C: Superconductivity and Its Applications, 2001, 362, 156-163. | 1.2 | 23 |
| 295 | Growth of Bi ₂ Sr ₂ Ca _n Y ₁ Cu _n O _y superconducting whiskers. Physica C: Superconductivity and Its Applications, 2001, 362, 195-199. | 1.2 | 14 |
| 296 | Collective motion of Josephson vortex lattice in long stacked junction fabricated from Bi-2212 whisker. Physica C: Superconductivity and Its Applications, 2001, 362, 251-255. | 1.2 | 9 |
| 297 | Junction area dependence of critical current density in Bi-2212 stacked junction. Superconductor Science and Technology, 2001, 14, 1102-1105. | 3.5 | 6 |
| 298 | Fabrication of ultra-small and long intrinsic Josephson junctions on Bi-2212 single crystal whiskers. IEEE Transactions on Applied Superconductivity, 2001, 11, 948-951. | 1.7 | 4 |
| 299 | Fabrication and characteristics of submicron tunneling junctions on high T _c superconducting c-axis thin films and single crystals. Journal of Applied Physics, 2001, 89, 7675-7677. | 2.5 | 12 |
| 300 | Intrinsic Josephson effect and single Cooper pair tunneling. Physica C: Superconductivity and Its Applications, 2000, 335, 219-225. | 1.2 | 16 |
| 301 | Three-Dimensional Intrinsic Josephson Junctions Using C-Axis YBa ₂ Cu ₃ O _{7-y} Thin Film. Japanese Journal of Applied Physics, 1999, 38, 5069-5070. | 1.5 | 3 |
| 302 | 3D intrinsic Josephson junctions using c-axis thin films and single crystals. Superconductor Science and Technology, 1999, 12, 729-731. | 3.5 | 62 |
| 303 | Fabrication of submicron BSCCO stacked junctions by focused ion beam (FIB). IEEE Transactions on Applied Superconductivity, 1999, 9, 4312-4315. | 1.7 | 46 |
| 304 | Submicron stacked-junction fabrication from Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ whiskers by focused-ion-beam etching. Applied Physics Letters, 1999, 74, 1156-1158. | 3.3 | 133 |
| 305 | Comprehensive study of the film surface temperature and plasma thermokinetics during La _{1.85} Sr _{0.15} CuO ₄ deposition by laser ablation. Journal of Applied Physics, 1999, 86, 2856-2864. | 2.5 | 7 |
| 306 | Dynamic Simulation of the Tire Curing Process. Tire Science and Technology, 1996, 24, 50-76. | 0.4 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|----|-----------|
| 307 | Nanolithography. , 0, , . | | 5 |
| 308 | Fabrication and Characterization of Supercapacitors toward Self-Powered System. , 0, , . | | 4 |
| 309 | Triboelectric Nanogenerators: Design, Fabrication, Energy Harvesting, and Portable-Wearable Applications. , 0, , . | | 11 |
| 310 | Raman Spectroscopy and Mapping Analysis of Low-Dimensional Nanostructured Materials and Systems. , 0, , . | | 0 |
| 311 | Energy Storage Properties of Topochemically Synthesized Blue TiO ₂ Nanostructures in Aqueous and Organic Electrolyte. , 0, , . | | 0 |