

Yiju Li

List of Publications by Year in descending order

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110
papers

17,143
citations

18436

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25716

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docs citations

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times ranked

15655
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nitrogen and sulfur co-doped porous carbon nanosheets derived from willow catkin for supercapacitors. <i>Nano Energy</i> , 2016, 19, 165-175. | 8.2 | 1,088 |
| 2 | Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018, 554, 224-228. | 13.7 | 970 |
| 3 | Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7094-7099. | 3.3 | 769 |
| 4 | Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1701028. | 10.2 | 701 |
| 5 | All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017, 10, 538-545. | 15.6 | 602 |
| 6 | Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756. | 11.1 | 584 |
| 7 | Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , 2017, 17, 565-571. | 4.5 | 556 |
| 8 | Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , 2017, 29, 1606042. | 11.1 | 512 |
| 9 | 3D-Printed, All-in-One Evaporator for High-Efficiency Solar Steam Generation under 1 Sun Illumination. <i>Advanced Materials</i> , 2017, 29, 1700981. | 11.1 | 511 |
| 10 | Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1568-1575. | 15.6 | 499 |
| 11 | Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017, 29, 1704107. | 11.1 | 494 |
| 12 | High-capacity, low-tortuosity, and channel-guided lithium metal anode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3584-3589. | 3.3 | 412 |
| 13 | Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. <i>ACS Nano</i> , 2018, 12, 140-147. | 7.3 | 364 |
| 14 | Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , 2017, 1, 588-599. | 11.7 | 363 |
| 15 | Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018, 30, 1703453. | 11.1 | 359 |
| 16 | Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1104-1112. | 4.0 | 327 |
| 17 | Graphene oxide-based evaporator with one-dimensional water transport enabling high-efficiency solar desalination. <i>Nano Energy</i> , 2017, 41, 201-209. | 8.2 | 316 |
| 18 | 3D-Printed All-Fiber Li-Ion Battery toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1703140. | 7.8 | 270 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Asymmetric supercapacitors based on $\text{Ni}(\text{OH})_2$ nanosheets and activated carbon with high energy density. <i>Journal of Power Sources</i> , 2014, 246, 371-376. | 4.0 | 268 |
| 20 | Three-Dimensional Printed Thermal Regulation Textiles. <i>ACS Nano</i> , 2017, 11, 11513-11520. | 7.3 | 261 |
| 21 | High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018, 8, 1701616. | 10.2 | 255 |
| 22 | Scalable and Sustainable Approach toward Highly Compressible, Anisotropic, Lamellar Carbon Sponge. <i>CheM</i> , 2018, 4, 544-554. | 5.8 | 246 |
| 23 | Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. <i>Nano Letters</i> , 2017, 17, 3792-3797. | 4.5 | 243 |
| 24 | Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018, 30, e1705651. | 11.1 | 241 |
| 25 | Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017, 7, 1700595. | 10.2 | 210 |
| 26 | Single Atom Array Mimic on Ultrathin MOF Nanosheets Boosts the Safety and Life of Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e1906722. | 11.1 | 205 |
| 27 | A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017, 10, 1356-1365. | 5.8 | 200 |
| 28 | 3D Wettable Framework for Dendrite-Free Alkali Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800635. | 10.2 | 196 |
| 29 | Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016, 16, 3616-3623. | 4.5 | 187 |
| 30 | Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. <i>Nano Letters</i> , 2018, 18, 3926-3933. | 4.5 | 175 |
| 31 | Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1802398. | 10.2 | 163 |
| 32 | Hierarchically Porous, Ultrathick, "Breathable" Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701203. | 10.2 | 161 |
| 33 | Enabling high-volumetric-energy-density supercapacitors: designing open, low-tortuosity heteroatom-doped porous carbon-tube bundle electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23085-23093. | 5.2 | 158 |
| 34 | In Situ Growth of Metal-Organic Frameworks in Three-Dimensional Aligned Lumen Arrays of Wood for Rapid and Highly Efficient Organic Pollutant Removal. <i>Environmental Science & Technology</i> , 2019, 53, 2705-2712. | 4.6 | 157 |
| 35 | MXene/Si@SiO ₂ @C Layer-by-Layer Superstructure with Autoadjustable Function for Superior Stable Lithium Storage. <i>ACS Nano</i> , 2019, 13, 2167-2175. | 7.3 | 154 |
| 36 | Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , 2017, 11, 4801-4807. | 7.3 | 151 |

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|----|--|------|-----------|
| 37 | Superflexible Wood. ACS Applied Materials & Interfaces, 2017, 9, 23520-23527. | 4.0 | 141 |
| 38 | Electrodeposition of nickel sulfide on graphene-covered make-up cotton as a flexible electrode material for high-performance supercapacitors. Journal of Power Sources, 2015, 274, 943-950. | 4.0 | 133 |
| 39 | 3D Printing of Tunable Energy Storage Devices with Both High Areal and Volumetric Energy Densities. Advanced Energy Materials, 2019, 9, 1802578. | 10.2 | 132 |
| 40 | Fabrication of manganese dioxide nanoplates anchoring on biomass-derived cross-linked carbon nanosheets for high-performance asymmetric supercapacitors. Journal of Power Sources, 2015, 300, 309-317. | 4.0 | 129 |
| 41 | A Freestanding Flexible Single-Atom Cobalt-Based Multifunctional Interlayer toward Reversible and Durable Lithium-Sulfur Batteries. Small Methods, 2020, 4, 1900701. | 4.6 | 123 |
| 42 | Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li-O ₂ Batteries. Advanced Energy Materials, 2019, 9, 1802964. | 10.2 | 121 |
| 43 | Scalable, anisotropic transparent paper directly from wood for light management in solar cells. Nano Energy, 2017, 36, 366-373. | 8.2 | 117 |
| 44 | Material design and structure optimization for rechargeable lithium-sulfur batteries. Matter, 2021, 4, 1142-1188. | 5.0 | 116 |
| 45 | Atomically Dispersed CoP ₃ on CdS Nanorods with Electron-Rich Feature Boosts Photocatalysis. Advanced Materials, 2020, 32, e1904249. | 11.1 | 105 |
| 46 | Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. Small Methods, 2019, 3, 1800176. | 4.6 | 97 |
| 47 | Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. Nature Energy, 2018, 3, 148-156. | 19.8 | 96 |
| 48 | Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907. | 11.1 | 92 |
| 49 | Two Birds with One Stone: Interfacial Engineering of Multifunctional Janus Separator for Lithium-Sulfur Batteries. Advanced Materials, 2022, 34, e2107638. | 11.1 | 91 |
| 50 | Co-doped 1T-MoS ₂ nanosheets embedded in N, S-doped carbon nanobowls for high-rate and ultra-stable sodium-ion batteries. Nano Research, 2019, 12, 2218-2223. | 5.8 | 88 |
| 51 | Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. Nano Research, 2019, 12, 2259-2267. | 5.8 | 85 |
| 52 | Noble metal-based 1D and 2D electrocatalytic nanomaterials: Recent progress, challenges and perspectives. Nano Today, 2019, 28, 100774. | 6.2 | 81 |
| 53 | Anchoring CuO nanoparticles on nitrogen-doped reduced graphene oxide nanosheets as electrode material for supercapacitors. Journal of Electroanalytical Chemistry, 2014, 727, 154-162. | 1.9 | 80 |
| 54 | Breath-Figure Self-Assembled Low-Cost Janus Fabrics for Highly Efficient and Stable Solar Desalination. Advanced Functional Materials, 2022, 32, . | 7.8 | 80 |

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|----|--|------|-----------|
| 55 | In Situ "Chainmail Catalyst" Assembly in Low Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1801289. | 10.2 | 79 |
| 56 | Advanced Multifunctional Electrocatalysts for Energy Conversion. <i>ACS Energy Letters</i> , 2019, 4, 1672-1680. | 8.8 | 78 |
| 57 | Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in Li-S Batteries. <i>Chemistry of Materials</i> , 2017, 29, 8037-8041. | 3.2 | 73 |
| 58 | Lewis Acidic PtIr Multipods Enable High Performance Li-O ₂ Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26592-26598. | 7.2 | 72 |
| 59 | Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. <i>Nano Letters</i> , 2016, 16, 5553-5558. | 4.5 | 67 |
| 60 | Enhanced Cathode and Anode Compatibility for Boosting Both Energy and Power Densities of Na/K-Ion Hybrid Capacitors. <i>Matter</i> , 2019, 1, 893-910. | 5.0 | 65 |
| 61 | A highly efficient and durable water splitting system: platinum sub-nanocluster functionalized nickel-iron layered double hydroxide as the cathode and hierarchical nickel-iron selenide as the anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2831-2837. | 5.2 | 65 |
| 62 | Selectively aligned cellulose nanofibers towards high-performance soft actuators. <i>Extreme Mechanics Letters</i> , 2019, 29, 100463. | 2.0 | 65 |
| 63 | Hydrothermal deposition of manganese dioxide nanosheets on electrodeposited graphene covered nickel foam as a high-performance electrode for supercapacitors. <i>Journal of Power Sources</i> , 2015, 279, 138-145. | 4.0 | 60 |
| 64 | Facile preparation of three-dimensional multilayer porous MnO ₂ /reduced graphene oxide composite and its supercapacitive performance. <i>Journal of Power Sources</i> , 2014, 271, 582-588. | 4.0 | 57 |
| 65 | Partially reduced Pd single atoms on CdS nanorods enable photocatalytic reforming of ethanol into high value-added multicarbon compound. <i>CheM</i> , 2021, 7, 1033-1049. | 5.8 | 55 |
| 66 | Hierarchical copper cobalt sulfides nanowire arrays for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2019, 487, 198-205. | 3.1 | 50 |
| 67 | Hierarchical Edge-Rich Nickel Phosphide Nanosheet Arrays as Efficient Electrocatalysts toward Hydrogen Evolution in Both Alkaline and Acidic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7804-7811. | 3.2 | 48 |
| 68 | Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. <i>Materials Today</i> , 2019, 24, 26-32. | 8.3 | 48 |
| 69 | Metal Single Atom Strategy Greatly Boosts Photocatalytic Methyl Activation and C-C Coupling for the Coproduction of High-Value-Added Multicarbon Compounds and Hydrogen. <i>ACS Catalysis</i> , 2020, 10, 9109-9114. | 5.5 | 47 |
| 70 | Carbon- and Binder-Free Core-Shell Nanowire Arrays for Efficient Ethanol Electro-Oxidation in Alkaline Medium. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4705-4714. | 4.0 | 46 |
| 71 | Engineering g Orbital Occupancy of Pt with Au Alloying Enables Reversible Li-O ₂ Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 46 |
| 72 | Li-N Interaction Induced Deep Eutectic Gel Polymer Electrolyte for High Performance Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 45 |

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|----|---|------|-----------|
| 73 | A novel asymmetric supercapacitor with buds-like Co(OH) ₂ used as cathode materials and activated carbon as anode materials. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 93-99. | 1.9 | 44 |
| 74 | Polyaniline-modified porous carbon tube bundles composite for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 292, 458-467. | 2.6 | 43 |
| 75 | High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1800466. | 10.2 | 43 |
| 76 | Synthesis of honeycomb-like NiS ₂ /NiO nano-multiple materials for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015, 173, 209-214. | 2.6 | 42 |
| 77 | A mechanistic study of electrode materials for rechargeable batteries beyond lithium ions by <i>in situ</i> transmission electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 2670-2707. | 15.6 | 42 |
| 78 | Cesium Lead Bromide Perovskite-Based Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2021, 21, 4861-4867. | 4.5 | 39 |
| 79 | Synthesis of Hierarchically Porous Sandwich-Like Carbon Materials for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2016, 22, 16863-16871. | 1.7 | 38 |
| 80 | Wet spinning of fiber-shaped flexible Zn-ion batteries toward wearable energy storage. <i>Journal of Energy Chemistry</i> , 2022, 71, 192-200. | 7.1 | 37 |
| 81 | K _{2.25} Ni _{0.55} Co _{0.37} Fe(CN) ₆ nanoparticle connected by cross-linked carbon nanotubes conductive skeletons for high-performance energy storage. <i>Chemical Engineering Journal</i> , 2017, 328, 834-843. | 6.6 | 34 |
| 82 | Coupled and decoupled hierarchical carbon nanomaterials toward high-energy-density quasi-solid-state Na-Ion hybrid energy storage devices. <i>Energy Storage Materials</i> , 2019, 23, 530-538. | 9.5 | 32 |
| 83 | Ruthenium-nickel-cobalt alloy nanoparticles embedded in hollow carbon microtubes as a bifunctional mosaic catalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 710-721. | 5.0 | 31 |
| 84 | SnSe ₂ nanocrystals coupled with hierarchical porous carbon microspheres for long-life sodium ion battery anode. <i>Science China Materials</i> , 2020, 63, 483-491. | 3.5 | 30 |
| 85 | Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. <i>Nano Letters</i> , 2017, 17, 5817-5822. | 4.5 | 29 |
| 86 | In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017, 7, 1601783. | 10.2 | 27 |
| 87 | All-in-One Compact Architecture toward Wearable All-Solid-State, High-Volumetric-Energy-Density Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23834-23841. | 4.0 | 25 |
| 88 | Co@MWNTs-Plastic: A novel electrode for NaBH ₄ oxidation. <i>Electrochimica Acta</i> , 2015, 156, 102-107. | 2.6 | 23 |
| 89 | Self N-Doped Porous Interconnected Carbon Nanosheets Material for Supercapacitors. <i>Acta Chimica Sinica</i> , 2018, 76, 107. | 0.5 | 22 |
| 90 | Polyaniline coated 3D crosslinked carbon nanosheets for high-energy-density supercapacitors. <i>Applied Surface Science</i> , 2019, 493, 506-513. | 3.1 | 21 |

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|-----|--|-----|-----------|
| 91 | Nitrogen-doped graphene oxide/cupric oxide as an anode material for lithium ion batteries. RSC Advances, 2014, 4, 64756-64762. | 1.7 | 20 |
| 92 | PPy wrapped MnO ₂ @C/TiO ₂ nanowire arrays for electrochemical energy storage. Electrochimica Acta, 2015, 182, 1153-1158. | 2.6 | 19 |
| 93 | Compact self-standing layered film assembled by V ₂ O ₅ -nH ₂ O/CNTs 2D/1D composites for high volumetric capacitance flexible supercapacitors. Science China Materials, 2019, 62, 936-946. | 3.5 | 19 |
| 94 | High-performance asymmetric supercapacitor assembled with three-dimensional, coadjacent graphene-like carbon nanosheets and its composite. Journal of Electroanalytical Chemistry, 2018, 823, 474-481. | 1.9 | 18 |
| 95 | Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. Materials Today, 2022, 58, 238-274. | 8.3 | 17 |
| 96 | Facile preparation of transition metal oxide-metal composites with unique nanostructures and their electrochemical performance as energy storage material. Journal of Materials Chemistry A, 2013, 1, 14246. | 5.2 | 16 |
| 97 | FeOOH electrodeposited on Ag decorated ZnO nanorods for electrochemical energy storage. RSC Advances, 2016, 6, 39166-39171. | 1.7 | 16 |
| 98 | In Situ Formed Edge-Rich Ni ₃ S ₂ -NiOOH Heterojunctions for Oxygen Evolution Reaction. Journal of the Electrochemical Society, 2022, 169, 054532. | 1.3 | 15 |
| 99 | Methanol electrooxidation on flexible multi-walled carbon nanotube-modified sponge-based nickel electrode. Journal of Solid State Electrochemistry, 2015, 19, 3027-3034. | 1.2 | 13 |
| 100 | Nanocellulose and Its Derivatives toward Advanced Lithium Sulfur Batteries. , 2021, 3, 1130-1142. | | 13 |
| 101 | Granadilla-Inspired Structure Design for Conversion/Alloy-Reaction Electrode with Integrated Lithium Storage Behaviors. ACS Applied Materials & Interfaces, 2017, 9, 15470-15476. | 4.0 | 11 |
| 102 | Nickel cobalt oxide nanowires-modified hollow carbon tubular bundles for high-performance sodium-ion hybrid capacitors. International Journal of Energy Research, 2020, 44, 3883-3892. | 2.2 | 11 |
| 103 | Engineering e _g Orbital Occupancy of Pt with Au Alloying Enables Reversible Li ⁺ /O ₂ Batteries. Angewandte Chemie, 2022, 134, . | 1.6 | 11 |
| 104 | A double-chamber energy storage device with dual ionic electrolyte enabling high energy density. Electrochimica Acta, 2018, 274, 31-39. | 2.6 | 8 |
| 105 | Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. Science China Materials, 2022, 65, 559-592. | 3.5 | 8 |
| 106 | Reduced graphene oxide decorated on MnO ₂ nanoflakes grown on C/TiO ₂ nanowire arrays for electrochemical energy storage. RSC Advances, 2015, 5, 87521-87527. | 1.7 | 7 |
| 107 | One-Step, Catalyst-Free, Scalable in Situ Synthesis of Single-Crystal Aluminum Nanowires in Confined Graphene Space. ACS Applied Materials & Interfaces, 2019, 11, 6009-6014. | 4.0 | 7 |
| 108 | Lewis Acidic PtIr Multipods Enable High-Performance Li ⁺ /O ₂ Batteries. Angewandte Chemie, 2021, 133, 26796-26802. | 1.6 | 6 |

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|-----|--|-----|-----------|
| 109 | Economical, facile synthesis of network-like carbon nanosheets and their use as an enhanced electrode material for sensitive detection of ascorbic acid. RSC Advances, 2017, 7, 32020-32026. | 1.7 | 5 |
| 110 | Li ⁺ /N Interaction Induced Deep Eutectic Gel Polymer Electrolyte for High Performance Lithium-Metal Batteries. Angewandte Chemie, 0, , . | 1.6 | 0 |