## Charles M Lieber

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5583096/publications.pdf

Version: 2024-02-01

9346 3449 55,981 154 93 148 citations h-index g-index papers 159 159 159 44280 docs citations times ranked citing authors all docs

| #              | Article   | IF                | CITATIONS             |
|----------------|---|-------------------|-----------------------|
| 1              | Scalable Three-Dimensional Recording Electrodes for Probing Biological Tissues. Nano Letters, 2022, 22, 4552-4559.  | 4.5               | 9                     |
| 2              | All-Tissue-like Multifunctional Optoelectronic Mesh for Deep-Brain Modulation and Mapping. Nano Letters, 2021, 21, 3184-3190.   | 4.5               | 9                     |
| 3              | Nanowire-enabled bioelectronics. Nano Today, 2021, 38, 101135.  | 6.2               | 31                    |
| 4              | Nanowire probes could drive high-resolution brain-machine interfaces. Nano Today, 2020, 31, 100821.   | 6.2               | 18                    |
| 5              | Nanoenabled Direct Contact Interfacing of Syringe-Injectable Mesh Electronics. Nano Letters, 2019, 19, 5818-5826.   | 4.5               | 41                    |
| 6              | Scalable ultrasmall three-dimensional nanowire transistor probes for intracellular recording. Nature Nanotechnology, 2019, 14, 783-790.   | 15.6              | 129                   |
| 7              | Precision electronic medicine in the brain. Nature Biotechnology, 2019, 37, 1007-1012.  | 9.4               | 62                    |
| 8              | Advanced One- and Two-Dimensional Mesh Designs for Injectable Electronics. Nano Letters, 2019, 19, 4180-4187.   | 4.5               | 23                    |
| 9              | Nanowired Bioelectric Interfaces. Chemical Reviews, 2019, 119, 9136-9152.   | 23.0              | 92                    |
| 10             | Novel electrode technologies for neural recordings. Nature Reviews Neuroscience, 2019, 20, 330-345.   | 4.9               | 436                   |
|                |   |                   |                       |
| 11             | Bioinspired neuron-like electronics. Nature Materials, 2019, 18, 510-517.   | 13.3              | 277                   |
| 11             | Bioinspired neuron-like electronics. Nature Materials, 2019, 18, 510-517.  Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. Neuron, 2019, 104, 1039-1055.e12.   | 13.3              | 396                   |
|                | Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective   |                   |                       |
| 12             | Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. Neuron, 2019, 104, 1039-1055.e12.  Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. ACS Nano,   | 3.8               | 396                   |
| 12<br>13       | Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. Neuron, 2019, 104, 1039-1055.e12.  Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. ACS Nano, 2019, 13, 14145-14151.  Gate Tunable Hole Charge Qubit Formed in a Ge/Si Nanowire Double Quantum Dot Coupled to   | 3.8<br>7.3        | 396                   |
| 12<br>13<br>14 | Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. Neuron, 2019, 104, 1039-1055.e12.  Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. ACS Nano, 2019, 13, 14145-14151.  Gate Tunable Hole Charge Qubit Formed in a Ge/Si Nanowire Double Quantum Dot Coupled to Microwave Photons. Nano Letters, 2019, 19, 1052-1060.  Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. Accounts of Chemical   | 3.8<br>7.3<br>4.5 | 396<br>15<br>20       |
| 12<br>13<br>14 | Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. Neuron, 2019, 104, 1039-1055.e12.  Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. ACS Nano, 2019, 13, 14145-14151.  Gate Tunable Hole Charge Qubit Formed in a Ge/Si Nanowire Double Quantum Dot Coupled to Microwave Photons. Nano Letters, 2019, 19, 1052-1060.  Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. Accounts of Chemical Research, 2018, 51, 309-318.  Tissue-like Neural Probes for Understanding and Modulating the Brain. Biochemistry, 2018, 57, | 3.8<br>7.3<br>4.5 | 396<br>15<br>20<br>68 |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | A method for single-neuron chronic recording from the retina in awake mice. Science, 2018, 360, 1447-1451.   | 6.0  | 132       |
| 20 | Syringe-injectable Mesh Electronics for Stable Chronic Rodent Electrophysiology. Journal of Visualized Experiments, 2018, , .  | 0.2  | 22        |
| 21 | Mesh electronics: a new paradigm for tissue-like brain probes. Current Opinion in Neurobiology, 2018, 50, 33-41.   | 2.0  | 131       |
| 22 | Electrochemical Deposition of Conformal and Functional Layers on High Aspect Ratio Silicon Micro/Nanowires. Nano Letters, 2017, 17, 4502-4507.   | 4.5  | 50        |
| 23 | Syringe-injectable mesh electronics integrate seamlessly with minimal chronic immune response in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5894-5899. | 3.3  | 181       |
| 24 | Friction between van der Waals Solids during Lattice Directed Sliding. Nano Letters, 2017, 17, 4116-4121.  | 4.5  | 48        |
| 25 | Syringe-Injectable Electronics with a Plug-and-Play Input/Output Interface. Nano Letters, 2017, 17, 5836-5842.   | 4.5  | 59        |
| 26 | Highly scalable multichannel mesh electronics for stable chronic brain electrophysiology. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10046-E10055.               | 3.3  | 120       |
| 27 | Scaling of subgap excitations in a superconductor-semiconductor nanowire quantum dot. Physical Review B, 2017, 95, .   | 1.1  | 45        |
| 28 | Advances in nanowire bioelectronics. Reports on Progress in Physics, 2017, 80, 016701.   | 8.1  | 99        |
| 29 | Specific detection of biomolecules in physiological solutions using graphene transistor biosensors.  Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14633-14638.      | 3.3  | 200       |
| 30 | Plateau–Rayleigh Crystal Growth of Nanowire Heterostructures: Strain-Modified Surface Chemistry and Morphological Control in One, Two, and Three Dimensions. Nano Letters, 2016, 16, 2830-2836.                    | 4.5  | 49        |
| 31 | Stable long-term chronic brain mapping at the single-neuron level. Nature Methods, 2016, 13, 875-882.  | 9.0  | 256       |
| 32 | Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. Nature Nanotechnology, 2016, 11, 776-782.  | 15.6 | 160       |
| 33 | Encoding Active Device Elements at Nanowire Tips. Nano Letters, 2016, 16, 4713-4719.   | 4.5  | 11        |
| 34 | Shape-Controlled Deterministic Assembly of Nanowires. Nano Letters, 2016, 16, 2644-2650.   | 4.5  | 57        |
| 35 | Nano-Bioelectronics. Chemical Reviews, 2016, 116, 215-257.   | 23.0 | 530       |
| 36 | Spontaneous Internalization of Cell Penetrating Peptide-Modified Nanowires into Primary Neurons. Nano Letters, 2016, 16, 1509-1513.  | 4.5  | 86        |

3

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Syringe-injectable electronics. Nature Nanotechnology, 2015, 10, 629-636.   | 15.6 | 543       |
| 38 | Nanoscience and the nano-bioelectronics frontier. Nano Research, 2015, 8, 1-22.   | 5.8  | 93        |
| 39 | General Strategy for Biodetection in High Ionic Strength Solutions Using Transistor-Based Nanoelectronic Sensors. Nano Letters, 2015, 15, 2143-2148.  | 4.5  | 215       |
| 40 | Plateau–Rayleigh crystal growth of periodic shells on one-dimensional substrates. Nature Nanotechnology, 2015, 10, 345-352.   | 15.6 | 131       |
| 41 | Facile, Rapid, and Large-Area Periodic Patterning of Semiconductor Substrates with Submicron Inorganic Structures. Journal of the American Chemical Society, 2015, 137, 3739-3742.              | 6.6  | 5         |
| 42 | Beyond the Patch Clamp: Nanotechnologies for Intracellular Recording. Neuron, 2015, 86, 21-24.  | 3.8  | 51        |
| 43 | Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. Nature<br>Materials, 2015, 14, 1286-1292.   | 13.3 | 334       |
| 44 | Syringe Injectable Electronics: Precise Targeted Delivery with Quantitative Input/Output Connectivity. Nano Letters, 2015, 15, 6979-6984.   | 4.5  | 109       |
| 45 | Sub-10-nm intracellular bioelectronic probes from nanowire–nanotube heterostructures.<br>Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1259-1264. | 3.3  | 59        |
| 46 | Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. Nature Nanotechnology, 2014, 9, 142-147.  | 15.6 | 230       |
| 47 | Long Term Stability of Nanowire Nanoelectronics in Physiological Environments. Nano Letters, 2014, 14, 1614-1619.   | 4.5  | 126       |
| 48 | Nanowire nanocomputer as a finite-state machine. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2431-2435.   | 3.3  | 88        |
| 49 | Spin-resolved Andreev levels and parity crossings in hybrid superconductor–semiconductor nanostructures. Nature Nanotechnology, 2014, 9, 79-84.   | 15.6 | 481       |
| 50 | A room temperature low-threshold ultraviolet plasmonic nanolaser. Nature Communications, 2014, 5, 4953.   | 5.8  | 278       |
| 51 | Semiconductor nanowire solar cells: synthetic advances and tunable properties. Pure and Applied Chemistry, 2014, 86, 13-26.   | 0.9  | 11        |
| 52 | Synthetic Nanoelectronic Probes for Biological Cells and Tissues. Annual Review of Analytical Chemistry, 2013, 6, 31-51.  | 2.8  | 82        |
| 53 | Semiconductor nanowires: a platform for exploring limits and concepts for nano-enabled solar cells. Energy and Environmental Science, 2013, 6, 719.   | 15.6 | 189       |
| 54 | A nanoscale combing technique for the large-scale assembly of highly aligned nanowires. Nature Nanotechnology, 2013, 8, 329-335.  | 15.6 | 276       |

| #  | Article   | IF   | Citations |
|----|---|------|-----------|
| 55 | Nanowire nanoelectronics: Building interfaces with tissue and cells at the natural scale of biology. Pure and Applied Chemistry, 2013, 85, 883-901.   | 0.9  | 24        |
| 56 | Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6694-6699. | 3.3  | 85        |
| 57 | Intracellular recordings of action potentials by an extracellular nanoscale field-effect transistor.<br>Nature Nanotechnology, 2012, 7, 174-179.  | 15.6 | 412       |
| 58 | Macroporous nanowire nanoelectronic scaffolds for synthetic tissues. Nature Materials, 2012, 11, 986-994.   | 13.3 | 561       |
| 59 | Outside Looking In: Nanotube Transistor Intracellular Sensors. Nano Letters, 2012, 12, 3329-3333.   | 4.5  | 113       |
| 60 | Hole spin relaxation in Ge–Si core–shell nanowire qubits. Nature Nanotechnology, 2012, 7, 47-50.  | 15.6 | 183       |
| 61 | Synthetically Encoded Ultrashort-Channel Nanowire Transistors for Fast, Pointlike Cellular Signal Detection. Nano Letters, 2012, 12, 2639-2644.   | 4.5  | 82        |
| 62 | Kinked p–n Junction Nanowire Probes for High Spatial Resolution Sensing and Intracellular Recording. Nano Letters, 2012, 12, 1711-1716.   | 4.5  | 119       |
| 63 | Semiconductor nanowires: A platform for nanoscience and nanotechnology. MRS Bulletin, 2011, 36, 1052-1063.  | 1.7  | 187       |
| 64 | Three-Dimensional, Flexible Nanoscale Field-Effect Transistors as Localized Bioprobes. Science, 2010, 329, 830-834.   | 6.0  | 734       |
| 65 | Assembly and integration of semiconductor nanowires for functional nanosystems. Pure and Applied Chemistry, 2010, 82, 2295-2314.  | 0.9  | 130       |
| 66 | Nanowire transistor arrays for mapping neural circuits in acute brain slices. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1882-1887.              | 3.3  | 187       |
| 67 | Semiconductor nanowires: A platform for nanoscience and nanotechnology. , 2010, , .   |      | 1         |
| 68 | Coaxial silicon nanowires as solar cells and nanoelectronic power sources., 2010,, 58-62.   |      | 1         |
| 69 | Flexible electrical recording from cells using nanowire transistor arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7309-7313.                 | 3.3  | 206       |
| 70 | Response to Comment on "Detection, Stimulation, and Inhibition of Neuronal Signals with High-Density Nanowire Transistor Arrays". Science, 2009, 323, 1429-1429.                                  | 6.0  | 8         |
| 71 | Nanomaterials for Neural Interfaces. Advanced Materials, 2009, 21, 3970-4004.   | 11.1 | 460       |
| 72 | Single-crystalline kinked semiconductor nanowire superstructures. Nature Nanotechnology, 2009, 4, 824-829.  | 15.6 | 352       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | 12 GHz \$F_{m MAX}\$GaN/AlN/AlGaN Nanowire MISFET. IEEE Electron Device Letters, 2009, 30, 322-324.   | 2.2  | 55        |
| 74 | Electrical Recording from Hearts with Flexible Nanowire Device Arrays. Nano Letters, 2009, 9, 914-918.  | 4.5  | 205       |
| 75 | Nanoelectronics from the bottom up. , 2009, , 137-146.  |      | 15        |
| 76 | A wavelength-selective photonic-crystal waveguide coupled to a nanowire light source. Nature Photonics, 2008, 2, 622-626.   | 15.6 | 162       |
| 77 | Nanowire Transistor Performance Limits and Applications. IEEE Transactions on Electron Devices, 2008, 55, 2859-2876.  | 1.6  | 306       |
| 78 | Sub-100 Nanometer Channel Length Ge/Si Nanowire Transistors with Potential for 2 THz Switching Speed. Nano Letters, 2008, 8, 925-930.                                 | 4.5  | 150       |
| 79 | Single and Tandem Axial <i>p-i-n</i> Nanowire Photovoltaic Devices. Nano Letters, 2008, 8, 3456-3460.   | 4.5  | 401       |
| 80 | Nanomaterial-incorporated blown bubble films for large-area, aligned nanostructures. Journal of Materials Chemistry, 2008, 18, 728.                                   | 6.7  | 95        |
| 81 | Semiconductor Nanowire Lasers. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .  | 0.0  | 2         |
| 82 | Performance Analysis of a Ge/Si Core/Shell Nanowire Field-Effect Transistor. Nano Letters, 2007, 7, 642-646.  | 4.5  | 157       |
| 83 | Nanoelectronics from the bottom up. Nature Materials, 2007, 6, 841-850.   | 13.3 | 1,419     |
| 84 | A Ge/Si heterostructure nanowire-based double quantum dot with integrated charge sensor. Nature Nanotechnology, 2007, 2, 622-625.                                     | 15.6 | 287       |
| 85 | Coaxial silicon nanowires as solar cells and nanoelectronic power sources. Nature, 2007, 449, 885-889.  | 13.7 | 2,791     |
| 86 | Detection, Stimulation, and Inhibition of Neuronal Signals with High-Density Nanowire Transistor Arrays. Science, 2006, 313, 1100-1104.                               | 6.0  | 797       |
| 87 | Ge/Si nanowire mesoscopic Josephson junctions. Nature Nanotechnology, 2006, 1, 208-213.   | 15.6 | 255       |
| 88 | Fabrication of silicon nanowire devices for ultrasensitive, label-free, real-time detection of biological and chemical species. Nature Protocols, 2006, 1, 1711-1724. | 5.5  | 709       |
| 89 | Ge/Si nanowire heterostructures as high-performance field-effect transistors. Nature, 2006, 441, 489-493.   | 13.7 | 1,401     |
| 90 | Semiconductor nanowires embedded in optical microcavities. , 2006, , .  |      | 1         |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | Multiplexed electrical detection of cancer markers with nanowire sensor arrays. Nature Biotechnology, 2005, 23, 1294-1301.  | 9.4  | 2,249     |
| 92  | Parallel and Complementary Detection of Proteins by p-type and n-type Silicon Nanowire Transistor Arrays. Materials Research Society Symposia Proceedings, 2005, 900, 1.          | 0.1  | 0         |
| 93  | One-dimensional hole gas in germanium/silicon nanowire heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10046-10051. | 3.3  | 443       |
| 94  | Single-crystal metallic nanowires and metal/semiconductor nanowire heterostructures. Nature, 2004, 430, 61-65.  | 13.7 | 957       |
| 95  | Electrical detection of single viruses. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14017-14022.                                  | 3.3  | 1,208     |
| 96  | Rational Growth of Branched and Hyperbranched Nanowire Structures. Nano Letters, 2004, 4, 871-874.  | 4.5  | 384       |
| 97  | Scalable Interconnection and Integration of Nanowire Devices without Registration. Nano Letters, 2004, 4, 915-919.  | 4.5  | 337       |
| 98  | Growth and transport properties of complementary germanium nanowire field-effect transistors. Applied Physics Letters, 2004, 84, 4176-4178.                                       | 1.5  | 351       |
| 99  | Single-Walled Carbon Nanotube AFM Probes:  Optimal Imaging Resolution of Nanoclusters and Biomolecules in Ambient and Fluid Environments. Nano Letters, 2004, 4, 1725-1731.       | 4.5  | 114       |
| 100 | Gallium Nitride-Based Nanowire Radial Heterostructures for Nanophotonics. Nano Letters, 2004, 4, 1975-1979.   | 4.5  | 609       |
| 101 | Direct Ultrasensitive Electrical Detection of DNA and DNA Sequence Variations Using Nanowire Nanosensors. Nano Letters, 2004, 4, 51-54.   | 4.5  | 1,267     |
| 102 | Controlled Growth and Structures of Molecular-Scale Silicon Nanowires. Nano Letters, 2004, 4, 433-436.  | 4.5  | 892       |
| 103 | Multiplexed Electrical Detection of Single Viruses. Materials Research Society Symposia Proceedings, 2004, 828, 97.   | 0.1  | 4         |
| 104 | High Performance Silicon Nanowire Field Effect Transistors. Nano Letters, 2003, 3, 149-152.   | 4.5  | 2,010     |
| 105 | Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices. Nano Letters, 2003, 3, 343-346.  | 4.5  | 455       |
| 106 | Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires. Nano Letters, 2002, 2, 487-490.  | 4.5  | 330       |
| 107 | Nanowire Superlattices. Nano Letters, 2002, 2, 81-82.   | 4.5  | 102       |
| 108 | Diameter-Controlled Synthesis of Carbon Nanotubes. Journal of Physical Chemistry B, 2002, 106, 2429-2433.   | 1.2  | 747       |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 109 | Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes. Nano Letters, 2002, 2, 1137-1141.  | 4.5  | 247       |
| 110 | Singleâ€Walled Carbon Nanotubes. Annals of the New York Academy of Sciences, 2002, 960, 203-215.   | 1.8  | 41        |
| 111 | Diameter-controlled synthesis of single-crystal silicon nanowires. Applied Physics Letters, 2001, 78, 2214-2216.   | 1.5  | 1,078     |
| 112 | Resonant Electron Scattering by Defects in Single-Walled Carbon Nanotubes. Science, 2001, 291, 283-285.  | 6.0  | 391       |
| 113 | High-Yield Assembly of Individual Single-Walled Carbon Nanotube Tips for Scanning Probe Microscopies. Journal of Physical Chemistry B, 2001, 105, 743-746. | 1.2  | 332       |
| 114 | Directed Assembly of One-Dimensional Nanostructures into Functional Networks. Science, 2001, 291, 630-633.   | 6.0  | 2,105     |
| 115 | Nanowire Nanosensors for Highly Sensitive and Selective Detection of Biological and Chemical Species. Science, 2001, 293, 1289-1292.                       | 6.0  | 5,587     |
| 116 | Direct haplotyping of kilobase-size DNA using carbon nanotube probes. Nature Biotechnology, 2000, 18, 760-763.   | 9.4  | 164       |
| 117 | Doping and Electrical Transport in Silicon Nanowires. Journal of Physical Chemistry B, 2000, 104, 5213-5216.   | 1.2  | 885       |
| 118 | Structure and Electronic Properties of Carbon Nanotubes. Journal of Physical Chemistry B, 2000, 104, 2794-2809.  | 1.2  | 646       |
| 119 | Molybdenum Selenide Molecular Wires as One-Dimensional Conductors. Physical Review Letters, 1999, 83, 5334-5337.   | 2.9  | 105       |
| 120 | Growth of nanotubes for probe microscopy tips. Nature, 1999, 398, 761-762.   | 13.7 | 384       |
| 121 | Controlled growth and electrical properties of heterojunctions of carbon nanotubes and silicon nanowires. Nature, 1999, 399, 48-51.                        | 13.7 | 709       |
| 122 | Up close and personal to atoms. Nature, 1999, 401, 227-230.  | 13.7 | 25        |
| 123 | Nanotube Nanotweezers. Science, 1999, 286, 2148-2150.  | 6.0  | 1,119     |
| 124 | Load-Independent Friction:Â MoO3Nanocrystal Lubricants. Journal of Physical Chemistry B, 1999, 103, 8405-8409.   | 1.2  | 102       |
| 125 | Assembly of Aβ Amyloid Protofibrils:  An in Vitro Model for a Possible Early Event in Alzheimer's Disease.<br>Biochemistry, 1999, 38, 8972-8980.           | 1.2  | 485       |
| 126 | Covalently functionalized nanotubes as nanometre-sized probes in chemistry and biology. Nature, 1998, 394, 52-55.  | 13.7 | 1,439     |

| #                        | Article   | IF                       | CITATIONS                 |
|--------------------------|---|--------------------------|---------------------------|
| 127                      | Chemically-Sensitive Imaging in Tapping Mode by Chemical Force Microscopy:Â Relationship between Phase Lag and Adhesion. Langmuir, 1998, 14, 1508-1511.   | 1.6                      | 163                       |
| 128                      | A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires. Science, 1998, 279, 208-211.  | 6.0                      | 4,213                     |
| 129                      | Single-walled carbon nanotube probes for high-resolution nanostructure imaging. Applied Physics Letters, 1998, 73, 3465-3467.   | 1.5                      | 169                       |
| 130                      | Chemical Force Microscopy: Probing and Imaging Interactions Between Functional Groups. ACS Symposium Series, 1998, , 312-320.   | 0.5                      | 2                         |
| 131                      | Columnar defect formation in nanorod/Tl2Ba2Ca2Cu3Oz superconducting composites. Applied Physics Letters, 1997, 70, 3158-3160.   | 1.5                      | 23                        |
| 132                      | High-Pressure Chemistry of Carbon Nitride Materials. Materials Research Society Symposia Proceedings, 1997, 499, 309.   | 0.1                      | 4                         |
| 133                      | Nanostructured high-temperature superconductors: Creation of strong-pinning columnar defects in nanorod/superconductor composites. Journal of Materials Research, 1997, 12, 2981-2996.  | 1.2                      | 276                       |
| 134                      | CHEMICAL FORCE MICROSCOPY. Annual Review of Materials Research, 1997, 27, 381-421.  | 5.5                      | 439                       |
| 135                      | Chemical Force Microscopy. Microscopy and Microanalysis, 1997, 3, 1253-1254.  | 0.2                      | 1                         |
|                          |   |                          |                           |
| 136                      | High-Temperature Superconductors. Science, 1997, 277, 1909-1914.  | 6.0                      | 1                         |
| 136                      | High-Temperature Superconductors. Science, 1997, 277, 1909-1914.  Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.   | 3.2                      | 104                       |
|                          |   |                          |                           |
| 137                      | Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.  Pulsed Laser Deposition of Diamond-Like Carbon Thin Films: Ablation Dynamics and Growth. Materials   | 3.2                      | 104                       |
| 137                      | Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.  Pulsed Laser Deposition of Diamond-Like Carbon Thin Films: Ablation Dynamics and Growth. Materials Research Society Symposia Proceedings, 1996, 438, 593.  Creation of Nanocrystals Via a Tip-Induced Solid-Solid Transformation. Materials Research Society   | 3.2                      | 104                       |
| 137<br>138<br>139        | Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.  Pulsed Laser Deposition of Diamond-Like Carbon Thin Films: Ablation Dynamics and Growth. Materials Research Society Symposia Proceedings, 1996, 438, 593.  Creation of Nanocrystals Via a Tip-Induced Solid-Solid Transformation. Materials Research Society Symposia Proceedings, 1996, 466, 89.  Pulsed laser deposition and physical properties of carbon nitride thin films. Journal of Electronic   | 3.2<br>0.1<br>0.1        | 104                       |
| 137<br>138<br>139        | Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.  Pulsed Laser Deposition of Diamond-Like Carbon Thin Films: Ablation Dynamics and Growth. Materials Research Society Symposia Proceedings, 1996, 438, 593.  Creation of Nanocrystals Via a Tip-Induced Solid-Solid Transformation. Materials Research Society Symposia Proceedings, 1996, 466, 89.  Pulsed laser deposition and physical properties of carbon nitride thin films. Journal of Electronic Materials, 1996, 25, 57-61.  Diamondlike properties in a single phase carbon nitride solid. Applied Physics Letters, 1996, 68,  | 3.2<br>0.1<br>0.1        | 104<br>4<br>2<br>47       |
| 137<br>138<br>139<br>140 | Growth of Metal Carbide Nanotubes and Nanorods. Chemistry of Materials, 1996, 8, 2041-2046.  Pulsed Laser Deposition of Diamond-Like Carbon Thin Films: Ablation Dynamics and Growth. Materials Research Society Symposia Proceedings, 1996, 438, 593.  Creation of Nanocrystals Via a Tip-Induced Solid-Solid Transformation. Materials Research Society Symposia Proceedings, 1996, 466, 89.  Pulsed laser deposition and physical properties of carbon nitride thin films. Journal of Electronic Materials, 1996, 25, 57-61.  Diamondlike properties in a single phase carbon nitride solid. Applied Physics Letters, 1996, 68, 2639-2641.  Growth and Structure of Carbide Nanorods. Materials Research Society Symposia Proceedings, 1995, | 3.2<br>0.1<br>0.1<br>1.0 | 104<br>4<br>2<br>47<br>58 |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 145 | Coulomb Gap and Correlated Vortex Pinning in Superconductors. Physical Review Letters, 1995, 74, 5132-5135.  | 2.9  | 39        |
| 146 | Path of magnetic flux lines through high-Tc copper oxide superconductors. Nature, 1994, 371, 777-779.  | 13.7 | 40        |
| 147 | Isotope Effect and Superconductivity in Metal-Doped C <sub>60</sub> . Science, 1993, 259, 655-658.   | 6.0  | 76        |
| 148 | Nanotube structure and electronic properties probed by scanning tunneling microscopy. Applied Physics Letters, 1993, 62, 2792-2794.  | 1.5  | 73        |
| 149 | Growth of the infinite layer phase of Sr1â^'xNdxCuO2by laser ablation. Applied Physics Letters, 1992, 61, 1712-1714.   | 1.5  | 34        |
| 150 | Fieldâ€induced surface modification on the atomic scale by scanning tunneling microscopy. Applied Physics Letters, 1992, 61, 1528-1530.  | 1.5  | 28        |
| 151 | Characterization of nanometer scale wear and oxidation of transition metal dichalcogenide lubricants by atomic force microscopy. Applied Physics Letters, 1991, 59, 3404-3406. | 1.5  | 110       |
| 152 | Superconductivity at 30 K in caesium-doped C60. Nature, 1991, 352, 223-225.  | 13.7 | 219       |
| 153 | Applications of Scanning Tunneling Microscopy to Inorganic Chemistry. Progress in Inorganic Chemistry, 0, , 431-510.   | 3.0  | 6         |
| 154 | Programmable nanowire circuits for nanoprocessors. , 0, .  |      | 1         |