

Masaki Tanemura

List of Publications by Year in descending order

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73
papers

1,143
citations

471509

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h-index

434195

31
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74
all docs

74
docs citations

74
times ranked

1499
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis of graphene crystals from solid waste plastic by chemical vapor deposition. Carbon, 2014, 72, 66-73. | 10.3 | 136 |
| 2 | Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. Applied Physics Letters, 2007, 90, 013107. | 3.3 | 74 |
| 3 | Room-temperature growth of a carbon nanofiber on the tip of conical carbon protrusions. Applied Physics Letters, 2004, 84, 3831-3833. | 3.3 | 65 |
| 4 | Regenerated cellulose membrane as bio-template for in-situ growth of visible-light driven C-modified mesoporous titania. Carbohydrate Polymers, 2016, 146, 166-173. | 10.2 | 63 |
| 5 | Ferromagnetism in Cu-doped AlN films. Applied Physics Letters, 2009, 95, . | 3.3 | 55 |
| 6 | Transfer free graphene growth on SiO ₂ substrate at 2500°C. Scientific Reports, 2017, 7, 43756. | 3.3 | 41 |
| 7 | Direct Growth of Single Carbon Nanofiber onto Tip of Scanning Probe Microscopy Induced by Ion Irradiation. Japanese Journal of Applied Physics, 2006, 45, 2004-2008. | 1.5 | 40 |
| 8 | <i>In Situ</i> TEM Observation of Fe-Included Carbon Nanofiber: Evolution of Structural and Electrical Properties in Field Emission Process. ACS Nano, 2012, 6, 9567-9573. | 14.6 | 31 |
| 9 | Highly transparent and conducting C:ZnO thin film for field emission displays. RSC Advances, 2014, 4, 64763-64770. | 3.6 | 31 |
| 10 | Room-temperature growth of carbon nanofibers on plastic substrates. Surface Science, 2006, 600, 3663-3667. | 1.9 | 29 |
| 11 | Temperature dependent diode and photovoltaic characteristics of graphene-GaN heterojunction. Applied Physics Letters, 2017, 111, . | 3.3 | 27 |
| 12 | Photovoltaic Action in Graphene-Ga ₂ O ₃ Heterojunction with Deep-Ultraviolet Irradiation. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800198. | 2.4 | 26 |
| 13 | Preparation and catalytic evaluation of cytochrome c immobilized on mesoporous silica materials. Journal of the Ceramic Society of Japan, 2010, 118, 410-416. | 1.1 | 25 |
| 14 | Synthesis of uniform monolayer graphene on re-solidified copper from waste chicken fat by low pressure chemical vapor deposition. Materials Research Bulletin, 2016, 83, 573-580. | 5.2 | 25 |
| 15 | Photovoltaic Action With Broadband Photoresponsivity in Germanium-MoS ₂ Ultrathin Heterojunction. IEEE Transactions on Electron Devices, 2018, 65, 4434-4440. | 3.0 | 24 |
| 16 | Effect of defects in ferromagnetic C doped ZnO thin films. Physica Status Solidi (B): Basic Research, 2012, 249, 1254-1257. | 1.5 | 19 |
| 17 | Ultraviolet light induced electrical hysteresis effect in graphene-GaN heterojunction. Applied Physics Letters, 2019, 114, . | 3.3 | 18 |
| 18 | Low temperature wafer-scale synthesis of hexagonal boron nitride by microwave assisted surface wave plasma chemical vapour deposition. AIP Advances, 2019, 9, . | 1.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Influence of the Natural Zeolite Particle Size Toward the Ammonia Adsorption Activity in Ceramic Hollow Fiber Membrane. <i>Membranes</i> , 2020, 10, 63. | 3.0 | 17 |
| 20 | Direct observation of structural change in Au-incorporated carbon nanofibers during field emission process. <i>Carbon</i> , 2014, 75, 277-280. | 10.3 | 16 |
| 21 | Visualizing copper assisted graphene growth in nanoscale. <i>Scientific Reports</i> , 2014, 4, 7563. | 3.3 | 16 |
| 22 | Nitrogen doping effect on flow-induced voltage generation from graphene-water interface. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3 | 16 |
| 23 | Role of Doped Nitrogen in Graphene for Flow-Induced Power Generation. <i>Advanced Engineering Materials</i> , 2018, 20, 1800387. | 3.5 | 16 |
| 24 | The role of solid, liquid and gaseous hydrocarbon precursors on chemical vapor deposition grown carbon nanomaterials' growth temperature. <i>Synthetic Metals</i> , 2021, 274, 116735. | 3.9 | 16 |
| 25 | Fabrication of transparent and flexible carbon-doped ZnO field emission display on plastic substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 145-148. | 2.4 | 15 |
| 26 | Room-temperature ferromagnetism of Cu-doped ZnO films deposited by helicon magnetron sputtering. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1243-1247. | 1.5 | 14 |
| 27 | Determination of Young's modulus of carbon nanofiber probes fabricated by the argon ion bombardment of carbon coated silicon cantilever. <i>Carbon</i> , 2011, 49, 4191-4196. | 10.3 | 14 |
| 28 | Observing Charge Transfer Interaction in CuI and MoS ₂ Heterojunction for Photoresponsive Device Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 302-310. | 4.3 | 13 |
| 29 | Recent Developments in Carbon Nanotubes-Reinforced Ceramic Matrix Composites: A Review on Dispersion and Densification Techniques. <i>Crystals</i> , 2021, 11, 457. | 2.2 | 13 |
| 30 | Wafer-scale production of carbon nanofiber probes. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 975. | 1.3 | 12 |
| 31 | The controlled fabrication of "Tip-On-Tip" TERS probes. <i>RSC Advances</i> , 2014, 4, 4718-4722. | 3.6 | 12 |
| 32 | Schottky Barrier Diode Characteristics of Graphene-GaN Heterojunction with Hexagonal Boron Nitride Interfacial Layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800089. | 1.8 | 12 |
| 33 | Low Temperature Direct of Graphene onto Metal Nano-Spindt Tip with Applications in Electron Emission. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300147. | 3.7 | 11 |
| 34 | Growth of uniform MoS ₂ layers on free-standing GaN semiconductor for vertical heterojunction device application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2040-2048. | 2.2 | 11 |
| 35 | Room-temperature growth of ion-induced Si- and Ge-incorporated carbon nanofibers. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1345-1349. | 1.5 | 10 |
| 36 | Transparent and flexible field emission display device based on single-walled carbon nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 303-305. | 2.4 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | In situ transmission electron microscopy of Ag-incorporated carbon nanofibers: the effect of Ag nanoparticle size on graphene formation. RSC Advances, 2015, 5, 5647-5651. | 3.6 | 9 |
| 38 | Graphene formation at 1500°C using indium as catalyst. RSC Advances, 2017, 7, 47353-47356. | 3.6 | 9 |
| 39 | Synthesis and Characterization of Li-C Nanocomposite for Easy and Safe Handling. Nanomaterials, 2020, 10, 1483. | 4.1 | 9 |
| 40 | Chemical state analysis using Auger parameters for XPS spectrum curve fitted with standard Auger spectra. Surface and Interface Analysis, 2018, 50, 1187-1190. | 1.8 | 8 |
| 41 | Switching isotropic and anisotropic graphene growth in a solid source CVD system. CrystEngComm, 2018, 20, 5356-5363. | 2.6 | 8 |
| 42 | Output density quantification of electricity generation by flowing deionized water on graphene. Applied Physics Letters, 2020, 117, . | 3.3 | 8 |
| 43 | Trifunctional Electrocatalytic Activities of Nitrogen-Doped Graphitic Carbon Nanofibers Synthesized by Chemical Vapor Deposition. ChemistrySelect, 2021, 6, 4867-4873. | 1.5 | 8 |
| 44 | Application of ion-induced carbon nanocomposite fibers to magnetic force microscope probes. Journal of Vacuum Science & Technology B, 2009, 27, 980. | 1.3 | 7 |
| 45 | Tuning the optical bandgap of multi-walled carbon nanotube-modified zinc silicate glass-ceramic composites. Ceramics International, 2021, 47, 20108-20116. | 4.8 | 7 |
| 46 | In situ fabrication of graphene from a copper-carbon nanoneedle and its electrical properties. RSC Advances, 2016, 6, 82459-82466. | 3.6 | 5 |
| 47 | Influence of MoS ₂ /Silicon Interface States on Spectral Photoresponse Characteristics. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900349. | 1.8 | 5 |
| 48 | Formation of Effective Cu/GaN Heterojunction with Excellent Ultraviolet Photoresponsive Photovoltage. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900200. | 1.8 | 5 |
| 49 | The Mo catalyzed graphitization of amorphous carbon: an <i>in situ</i> TEM study. RSC Advances, 2019, 9, 34377-34381. | 3.6 | 5 |
| 50 | High-Resolution Imaging of Plasmid DNA in Liquids in Dynamic Mode Atomic Force Microscopy Using a Carbon Nanofiber Tip. Japanese Journal of Applied Physics, 2011, 50, 08LB14. | 1.5 | 5 |
| 51 | Fabrication of Ion-Induced Carbon-Cobalt Nanocomposite Fibers: Effect of Cobalt Supply Rate. Journal of Nanoscience and Nanotechnology, 2011, 11, 10677-10681. | 0.9 | 4 |
| 52 | Synthesis of Freestanding WS ₂ Trees and Fibers on Au by Chemical Vapor Deposition (CVD). Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700566. | 1.8 | 4 |
| 53 | Effects of nitrogen-dopant bonding states on liquid-flow-induced electricity generation of graphene: A comparative study. Results in Physics, 2019, 12, 1291-1293. | 4.1 | 4 |
| 54 | Room-temperature graphitization in a solid-phase reaction. RSC Advances, 2020, 10, 914-922. | 3.6 | 4 |

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|----|---|-----|-----------|
| 55 | Ferromagnetic and Optical Properties of Partially Cu-Doped ZnO Films. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 765-768. | 1.5 | 3 |
| 56 | Facile one-step fabrication of highly transparent and flexible superhydrophobic substrate by room-temperature ion irradiation method. Physica Status Solidi - Rapid Research Letters, 2012, 6, 430-432. | 2.4 | 3 |
| 57 | Controllable fabrication and characterization of conical nanocarbon structures on polymer substrate for transparent and flexible field emission displays. Physica Status Solidi - Rapid Research Letters, 2012, 6, 184-186. | 2.4 | 3 |
| 58 | Graphitization of Gallium-Incorporated Carbon Nanofibers and Cones: In Situ and Ex Situ Transmission Electron Microscopy Studies. Physica Status Solidi (B): Basic Research, 2020, 257, 2000309. | 1.5 | 3 |
| 59 | One-step synthesis of spontaneously graphitized nanocarbon using cobalt-nanoparticles. SN Applied Sciences, 2020, 2, 1. | 2.9 | 3 |
| 60 | Synthesis of MoS ₂ Layers on GaN Using Ammonium Tetrathiomolybdate for Heterojunction Device Applications. Crystal Research and Technology, 2021, 56, 2000198. | 1.3 | 3 |
| 61 | Waste NR Latex Based-Precursors as Carbon Source for CNTs Eco-Fabrications. Polymers, 2021, 13, 3409. | 4.5 | 3 |
| 62 | Quantum limits to the electron field emission from tapered conductive sheets. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C2A64-C2A71. | 1.2 | 2 |
| 63 | Conducting polymer based hybrid structure as transparent and flexible field electron emitter. Physica Status Solidi - Rapid Research Letters, 2013, 7, 489-492. | 2.4 | 2 |
| 64 | Highly transparent and flexible field electron emitters based on hybrid carbon nanostructure. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1080-1083. | 2.4 | 2 |
| 65 | Encapsulation of transition metal dichalcogenides crystals with room temperature plasma deposited carbonaceous films. RSC Advances, 2017, 7, 41136-41143. | 3.6 | 2 |
| 66 | Development of oxide nanofiber-tipped cantilever as a substrate for cross-sectional transmission electron microscopy analysis. Surface and Interface Analysis, 2018, 50, 1122-1126. | 1.8 | 2 |
| 67 | Angular Distribution of Sputtered Ions from HfN by Ar ⁺ Ion Bombardment. Hyomen Kagaku, 2005, 26, 449-453. | 0.0 | 2 |
| 68 | Influence on Electrochemical Reactivity and Synthesis of Stainless Steel/Nitrogen-Doped Carbon Nanofibers. Journal of Physical Chemistry C, 2021, 125, 25197-25206. | 3.1 | 2 |
| 69 | Effect of surface morphology on the field emission property of ZnO films. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1349-1352. | 0.8 | 1 |
| 70 | Temperature dependence of catalytic activity in graphene synthesis for Sn nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 12796-12803. | 2.2 | 1 |
| 71 | Sinter-Crystallization and Optical Characterization of Dy ³⁺ : ZnO-B ₂ O ₃ -RHA Glass-Ceramics. Macromolecular Symposia, 2022, 401, 2100316. | 0.7 | 1 |
| 72 | Quantum limits to the electron field emission from tapered conductive sheets. , 2009, , . | | 0 |

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|----|---|----|-----------|
| 73 | Fabrication of well ordered Zn nanorod arrays by ion irradiation method at room temperature and effect on crystal orientations. , 2010, , . | | 0 |