

# Gabriela B Barin

## List of Publications by Year in descending order

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32  
papers

1,998  
citations

430874

18  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

3265  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. <i>Small</i> , 2022, 18, .  | 10.0 | 17        |
| 2  | Exploring Intramolecular Methyl-Methyl Coupling on a Metal Surface for Edge-Extended Graphene Nanoribbons. <i>Organic Materials</i> , 2021, 03, 128-133.   | 2.0  | 3         |
| 3  | Quantum electronic transport across $\pi$ -bite <sup>TM</sup> defects in graphene nanoribbons. <i>2D Materials</i> , 2021, 8, 035025.  | 4.4  | 17        |
| 4  | Edge Disorder in Bottom-Up Zigzag Graphene Nanoribbons: Implications for Magnetism and Quantum Electronic Transport. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4692-4696.         | 4.6  | 22        |
| 5  | Optimized graphene electrodes for contacting graphene nanoribbons. <i>Carbon</i> , 2021, 184, 331-339.   | 10.3 | 30        |
| 6  | Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. <i>Nano Letters</i> , 2020, 20, 1124-1130.   | 9.1  | 21        |
| 7  | Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020, 14, 5754-5762.   | 14.6 | 46        |
| 8  | Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. <i>Advanced Materials</i> , 2020, 32, e1906054.   | 21.0 | 44        |
| 9  | Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.  | 4.4  | 333       |
| 10 | Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. <i>Angewandte Chemie</i> , 2020, 132, 14210-14214.   | 2.0  | 2         |
| 11 | Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14106-14110.  | 13.8 | 15        |
| 12 | Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900343.                           | 1.5  | 26        |
| 13 | A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019, 13, 13083-13091.  | 14.6 | 36        |
| 14 | Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019, 146, 36-43.   | 10.3 | 70        |
| 15 | Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and <i>ex Situ</i> Characterization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2184-2192. | 5.0  | 75        |
| 16 | Nanoprinted Quantum Dot-Graphene Photodetectors. <i>Advanced Optical Materials</i> , 2019, 7, 1900019.   | 7.3  | 53        |
| 17 | Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 9104-9107.   | 13.7 | 110       |
| 18 | Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018, 560, 209-213.  | 27.8 | 397       |

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|----|--|------|-----------|
| 19 | Monitoring the On-Surface Synthesis of Graphene Nanoribbons by Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 7485-7492.   | 6.5  | 7         |
| 20 | Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 4671-4674.           | 13.7 | 61        |
| 21 | Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700223.                                  | 1.5  | 14        |
| 22 | Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. <i>Nature Communications</i> , 2017, 8, 633.   | 12.8 | 312       |
| 23 | Characterization of Nanocarbons: From Graphene to Graphene Nanoribbons (GNRs) and Quantum Dots (QDs). , 2017, , 315-338.   |      | 0         |
| 24 | Pre-Patterned CVD Graphene: Insights on ALD deposition parameters and their influence on Al <sub>2</sub> O <sub>3</sub> and graphene layers. <i>MRS Advances</i> , 2016, 1, 1401-1409. | 0.9  | 2         |
| 25 | Optimized graphene transfer: Influence of polymethylmethacrylate (PMMA) layer concentration and baking time on graphene final performance. <i>Carbon</i> , 2015, 84, 82-90.            | 10.3 | 187       |
| 26 | Hollow carbon nanostructures obtained from hydrothermal carbonization of lignocellulosic biomass. <i>Journal of Materials Science</i> , 2014, 49, 665-672.                             | 3.7  | 16        |
| 27 | Influence of hydrothermal carbonization on formation of curved graphite structures obtained from a lignocellulosic precursor. <i>Carbon</i> , 2014, 78, 609-612.                       | 10.3 | 40        |
| 28 | Graphene-like nanostructures obtained from Biomass. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1505, 1.  | 0.1  | 5         |
| 29 | Carbon Nanostructures Synthesize from Coconut Coir Dust Mediated by Layered Clays through Hydrothermal Process. <i>Materials Science Forum</i> , 2012, 727-728, 1355-1359.             | 0.3  | 2         |
| 30 | Semiconductor carbon composite from coir dust and sepiolite. <i>Materials Characterization</i> , 2011, 62, 143-147.  | 4.4  | 7         |
| 31 | Thermal characterization of usnic acid/collagen-based films. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 1011-1014.   | 3.6  | 21        |
| 32 | The action modes of <i>Lippia sidoides</i> (Cham) essential oil as penetration enhancers on snake skin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 97, 323-327.        | 3.6  | 7         |