

# Gabriela B Barin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2907230/publications.pdf>

Version: 2024-02-01

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	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018, 560, 209-213.	27.8	397
2	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	4.4	333
3	Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. <i>Nature Communications</i> , 2017, 8, 633.	12.8	312
4	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
5	Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 9104-9107.	13.7	110
6	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
7	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019, 146, 36-43.	10.3	70
8	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
9	Nanoprinted Quantum Dot-Graphene Photodetectors. <i>Advanced Optical Materials</i> , 2019, 7, 1900019.	7.3	53
10	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020, 14, 5754-5762.	14.6	46
11	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
12	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
13	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019, 13, 13083-13091.	14.6	36
14	Optimized graphene electrodes for contacting graphene nanoribbons. <i>Carbon</i> , 2021, 184, 331-339.	10.3	30
15	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
16	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
17	Thermal characterization of usnic acid/collagen-based films. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 1011-1014.	3.6	21
18	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. <i>Nano Letters</i> , 2020, 20, 1124-1130.	9.1	21

#	ARTICLE	IF	CITATIONS
19	Quantum electronic transport across $\pi$ - $\pi$ defects in graphene nanoribbons. 2D Materials, 2021, 8, 035025.	4.4	17
20	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. Small, 2022, 18, .	10.0	17
21	Hollow carbon nanostructures obtained from hydrothermal carbonization of lignocellulosic biomass. Journal of Materials Science, 2014, 49, 665-672.	3.7	16
22	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. Angewandte Chemie - International Edition, 2020, 59, 14106-14110.	13.8	15
23	Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2017, 254, 1700223.	1.5	14
24	The action modes of Lippia sidoides (Cham) essential oil as penetration enhancers on snake skin. Journal of Thermal Analysis and Calorimetry, 2009, 97, 323-327.	3.6	7
25	Semiconductor carbon composite from coir dust and sepiolite. Materials Characterization, 2011, 62, 143-147.	4.4	7
26	Monitoring the On-Surface Synthesis of Graphene Nanoribbons by Mass Spectrometry. Analytical Chemistry, 2017, 89, 7485-7492.	6.5	7
27	Graphene-like nanostructures obtained from Biomass. Materials Research Society Symposia Proceedings, 2013, 1505, 1.	0.1	5
28	Exploring Intramolecular Methyl-Methyl Coupling on a Metal Surface for Edge-Extended Graphene Nanoribbons. Organic Materials, 2021, 03, 128-133.	2.0	3
29	Carbon Nanostructures Synthesize from Coconut Coir Dust Mediated by Layered Clays through Hydrothermal Process. Materials Science Forum, 2012, 727-728, 1355-1359.	0.3	2
30	Pre-Patterned CVD Graphene: Insights on ALD deposition parameters and their influence on Al <sub>2</sub> O <sub>3</sub> and graphene layers. MRS Advances, 2016, 1, 1401-1409.	0.9	2
31	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. Angewandte Chemie, 2020, 132, 14210-14214.	2.0	2
32	Characterization of Nanocarbons: From Graphene to Graphene Nanoribbons (GNRs) and Quantum Dots (QDs). , 2017, , 315-338.		0