

# Vivek Saraswat

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/45654/publications.pdf>

Version: 2024-02-01

26  
papers

517  
citations

759233

12  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials Science Challenges to Graphene Nanoribbon Electronics. ACS Nano, 2021, 15, 3674-3708.	14.6	108
2	Extrinsic Cation Selectivity of 2D Membranes. ACS Nano, 2017, 11, 1340-1346.	14.6	105
3	Invariance of Water Permeance through Size-Differentiated Graphene Oxide Laminates. ACS Nano, 2018, 12, 7855-7865.	14.6	71
4	Aligned 2D carbon nanotube liquid crystals for wafer-scale electronics. Science Advances, 2021, 7, eabh0640.	10.3	40
5	Epitaxy, exfoliation, and strain-induced magnetism in rippled Heusler membranes. Nature Communications, 2021, 12, 2494.	12.8	25
6	Boundary-directed epitaxy of block copolymers. Nature Communications, 2020, 11, 4151.	12.8	22
7	Pinhole-seeded lateral epitaxy and exfoliation of GaSb films on graphene-terminated surfaces. Nature Communications, 2022, 13, .	12.8	22
8	Enhancing the signal strength of surface sensitive 2D IR spectroscopy. Journal of Chemical Physics, 2019, 150, 024707.	3.0	21
9	Anisotropic Synthesis of Armchair Graphene Nanoribbon Arrays from Sub-5 nm Seeds at Variable Pitches on Germanium. Journal of Physical Chemistry Letters, 2019, 10, 4266-4272.	4.6	17
10	Orientation Control of Selected Organic Semiconductor Crystals Achieved by Monolayer Graphene Templates. Advanced Materials Interfaces, 2016, 3, 1600621.	3.7	16
11	Synthesis of Armchair Graphene Nanoribbons on Germanium-on-Silicon. Journal of Physical Chemistry C, 2019, 123, 18445-18454.	3.1	12
12	Monolayer Sensitivity Enables a 2D IR Spectroscopic Immuno-biosensor for Studying Protein Structures: Application to Amyloid Polymorphs. Journal of Physical Chemistry Letters, 2019, 10, 3836-3842.	4.6	12
13	Graphene nanoribbons initiated from molecularly derived seeds. Nature Communications, 2022, 13, .	12.8	9
14	Nanoscale graphene/Ge wigglers as building blocks for THz sources. AIP Advances, 2017, 7, .	1.3	8
15	Structure Changes of a Membrane Polypeptide under an Applied Voltage Observed with Surface-Enhanced 2D IR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 1786-1792.	4.6	8
16	Rotational self-alignment of graphene seeds for nanoribbon synthesis on Ge(001) via chemical vapor deposition. APL Materials, 2020, 8, .	5.1	5
17	Tightly Pitched sub-10 nm Graphene Nanoribbon Arrays via Seed Mediated Growth on Ge (001). ECS Transactions, 2019, 93, 121-124.	0.5	3
18	Using Bottom-Up Lithography and Optical Nonlocality to Create Short-Wave Infrared Plasmonic Resonances in Graphene. ACS Photonics, 2021, 8, 1277-1285.	6.6	3

#	ARTICLE	IF	CITATIONS
19	Quantifying Mn Diffusion through Transferred versus Directly Grown Graphene Barriers. ACS Applied Materials & Interfaces, 2021, 13, 42146-42153.	8.0	3
20	Selective area epitaxy of GaAs films using patterned graphene on Ge. Applied Physics Letters, 2022, 120, .	3.3	3
21	CVD Synthesis of Armchair Graphene Nanoribbons on Ge/Si(001). ECS Transactions, 2019, 93, 133-136.	0.5	2
22	Synthesis of Semiconducting Graphene Nanoribbons on Ge and Ge/Si via Chemical Vapor Deposition. ECS Transactions, 2019, 93, 129-132.	0.5	2
23	Direct Synthesis of Armchair Graphene Nanoribbons on Ge(001)/Si(001) Using CVD. ECS Meeting Abstracts, 2019, , .	0.0	0
24	Tightly Pitched Sub-10 Nm Nanoribbons Grown Via Seeded Anisotropic Synthesis on Ge(001). ECS Meeting Abstracts, 2019, , .	0.0	0
25	Block copolymer lithography for scalable near-infrared graphene plasmonic devices. , 2020, , .		0
26	CVD Synthesis of Graphene Nanomesh on Ge(001). ECS Meeting Abstracts, 2022, MA2022-01, 876-876.	0.0	0