Viktor Bezugly

List of Publications by Year
in descending order

20	628	687363 13	839539 18
papers	citations	h-index	g-index

20	20	20	1095
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. Nature Communications, 2019, 10, 4225.	12.8	132
2	Highly Conductive Boron Nanotubes: Transport Properties, Work Functions, and Structural Stabilities. ACS Nano, 2011, 5, 4997-5005.	14.6	106
3	Toward Highly Sensitive and Energy Efficient Ammonia Gas Detection with Modified Single-Walled Carbon Nanotubes at Room Temperature. ACS Sensors, 2018, 3, 79-86.	7.8	106
4	Highly sensitive room temperature ammonia gas sensor using pristine graphene: The role of biocompatible stabilizer. Carbon, 2021, 173, 262-270.	10.3	46
5	Diameter-Selective Dispersion of Carbon Nanotubes via Polymers: A Competition between Adsorption and Bundling. ACS Nano, 2015, 9, 9012-9019.	14.6	37
6	Unveiling the Atomic Structure of Singleâ€Wall Boron Nanotubes. Advanced Functional Materials, 2014, 24, 4127-4134.	14.9	29
7	SCC-DFTB Parametrization for Boron and Boranes. Journal of Chemical Theory and Computation, 2012, 8, 1153-1163.	5.3	26
8	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. ACS Applied Energy Materials, 2020, 3, 2556-2564.	5.1	25
9	Selective and self-validating breath-level detection of hydrogen sulfide in humid air by gold nanoparticle-functionalized nanotube arrays. Nano Research, 2022, 15, 2512-2521.	10.4	21
10	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. Energies, 2020, 13, 394.	3.1	20
11	Machine Learningâ€Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. Advanced Intelligent Systems, 2022, 4, .	6.1	18
12	Polarizationâ€Sensitive Singleâ€Wall Carbon Nanotubes Allâ€inâ€One Photodetecting and Emitting Device Working at 1.55 Âµm. Advanced Functional Materials, 2017, 27, 1702341.	14.9	17
13	Ammonia Plasma-Induced n-Type Doping of Semiconducting Carbon Nanotube Films: Thermoelectric Properties and Ambient Effects. ACS Applied Materials & Interfaces, 2019, 11, 21807-21814.	8.0	14
14	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. IEEE Nanotechnology Magazine, 2016, 15, 583-589.	2.0	10
15	Quantification of curvature effects in boron and carbon nanotubes: Band structures and ballistic current. Physical Review B, 2013, 87, .	3.2	9
16	Stabilization of aqueous graphene dispersions utilizing a biocompatible dispersant: a molecular dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 24007-24016.	2.8	9
17	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. Scientific Reports, 2016, 6, 22524.	3.3	2
18	Dyes in Vertically Aligned Carbon Nanotube Arrays for Solar Cell Applications. Materials Research Society Symposia Proceedings, 2012, 1390, 71.	0.1	1

#	Article	IF	Citations
19	Detection of C-Reactive Protein by Liquid-Gated Carbon Nanotube Field Effect Transistors (LG-CNTFET): A Promising Tool against Antibiotic Resistance. Engineering Proceedings, 2021, 6, .	0.4	0
20	Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. Engineering Proceedings, 2021, 6, 14.	0.4	0