

Gennadii Kamarchuk

List of Publications by Year in descending order

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29
papers

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citations

1163117

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all docs

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docs citations

29
times ranked

122
citing authors

#	ARTICLE	IF	CITATIONS
1	New chemical sensors based on point heterocontact between single wall carbon nanotubes and gold wires. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 1022-1026.	7.8	36
2	Point-contact sensors: New prospects for a nanoscale-sensitive technique. <i>Europhysics Letters</i> , 2006, 76, 575-581.	2.0	26
3	Direct determination of Debye temperature and electron-phonon interaction in $1T\text{-VSe}_2$. <i>Physical Review B</i> , 2001, 63, .	3.2	22
4	A New Method for Controlling the Quantized Growth of Dendritic Nanoscale Point Contacts via Switchover and Shell Effects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 632-639.	3.1	21
5	On the importance of developing a new generation of breath tests for <i>Helicobacter pylori</i> detection. <i>Journal of Breath Research</i> , 2015, 9, 047111.	3.0	20
6	Conductance quantization as a new selective sensing mechanism in dendritic point contacts. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	16
7	ACTIVE TYPE SENSORS FOR BREATH GAS ANALYSIS. <i>Sensor Electronics and Microsystem Technologies</i> , 2014, 4, 49-54.	0.2	10
8	Elastic properties and phonon spectra of quasi-two-dimensional VSe_2 . <i>Low Temperature Physics</i> , 2003, 29, 151-154.	0.6	8
9	Point-contact spectroscopy of electron-phonon interaction in superconductors. <i>Low Temperature Physics</i> , 2014, 40, 215-222.	0.6	8
10	Nonlinear cyclical transport phenomena in copper point contacts. <i>Low Temperature Physics</i> , 2014, 40, 937-942.	0.6	8
11	Sensors for Breath Analysis: An Advanced Approach to Express Diagnostics and Monitoring of Human Diseases. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2011, , 63-75.	0.5	8
12	Selective detection of complex gas mixtures using point contacts: concept, method and tools. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1631-1643.	2.8	7
13	Sensors for Exhaled Gas Analysis: An Analytical Review. , 2013, , 264-300.		5
14	Spectroscopy of the electron-phonon interaction in the layered two-dimensional dichalcogenide $1T\text{-VSe}_2$. <i>Low Temperature Physics</i> , 2001, 27, 56.	0.6	4
15	Noninvasive real-time breath test for controlling hormonal background of the human body: detection of serotonin and melatonin with quantum point-contact sensors. <i>Journal of Breath Research</i> , 2022, 16, 016002.	3.0	4
16	Point-Contact Sensors as an Innovative Tool in Defense Against Chemical Agents, Environment and Health Risks: A Review. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 245-270.	0.2	3
17	GAS-SENSITIVE SENSORS BASED ON TCNQ DERIVATIVES. <i>Sensor Electronics and Microsystem Technologies</i> , 2014, 4, 41-48.	0.2	3
18	Nanostructural point-contact sensors for diagnostics of carcinogenic strains of <i>Helicobacter pylori</i> . <i>Biophysical Bulletin</i> , 2017, , .	0.2	3

#	ARTICLE	IF	CITATIONS
19	Desorption of excited H* atoms from free clusters Ar/CH ₄ and solid Ar doped with CH ₄ . Low Temperature Physics, 2021, 47, 1058-1064.	0.6	3
20	New method of making point contacts. Low Temperature Physics, 2008, 34, 161-163.	0.6	2
21	Electron-phonon interaction function in the layered dichalcogenide 2Ha-TaSe2. Low Temperature Physics, 2009, 35, 539-543.	0.6	2
22	A new approach to studying the luminescence spectra of free icosahedral and crystalline argon nanoclusters. Low Temperature Physics, 2016, 42, 156-159.	0.6	1
23	A new approach to studying the cathodoluminescence spectra of free quasicrystalline and crystalline inert-element clusters. Low Temperature Physics, 2020, 46, 145-154.	0.6	1
24	New express method for melatonin determination in the human body. Low Temperature Physics, 2021, 47, 233-241.	0.6	1
25	NEW NANOSENSORS FOR MONITORING GAS MEDIA. Sensor Electronics and Microsystem Technologies, 2014, 4, 46-53.	0.2	1
26	Point Contact Spectroscopy of Organic Conductors. ACS Symposium Series, 1999, , 196-215.	0.5	0
27	NEW ANION-RADICAL SALTS OF TCNQ AS A PERSPECTIVE SENSOR MATERIALS. Sensor Electronics and Microsystem Technologies, 2014, 3, 81-85.	0.2	0
28	Activation Mechanism of the Cyclic Switchover Effect for Quantum Selective Detection with Dendritic Yanson Point Contacts. Springer Proceedings in Physics, 2021, , 627-639.	0.2	0
29	Resistive properties of Janson's point contacts in the conditions of polarization inversion. Bulletin of the National Technical University "KhPI" Series New Solutions in Modern Technologies, 2021, , 81-88.	0.1	0