

Alexander Pospelov

List of Publications by Year in descending order

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16
papers

214
citations

1163117

8
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1058476

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g-index

16
all docs

16
docs citations

16
times ranked

104
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	New express method for melatonin determination in the human body. <i>Low Temperature Physics</i> , 2021, 47, 233-241.	0.6	1
3	Resistive properties of Janson's point contacts in the conditions of polarization inversion. <i>Bulletin of the National Technical University "KhPI" Series New Solutions in Modern Technologies</i> , 2021, , 81-88.	0.1	0
4	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
5	Macroscopic simulation of atom-sized structures of functional materials: phenomenology of the elongated electrode system. <i>Functional Materials</i> , 2017, 24, 005-468.	0.1	4
6	Nanostructural point-contact sensors for diagnostics of carcinogenic strains of <i>Helicobacter pylori</i> . <i>Biophysical Bulletin</i> , 2017, , .	0.2	3
7	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
8	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
9	Nonlinear cyclical transport phenomena in copper point contacts. <i>Low Temperature Physics</i> , 2014, 40, 937-942.	0.6	8
10	Sensors for Exhaled Gas Analysis: An Analytical Review. , 2013, , 264-300.		5
11	Evidence for sensory effects of a 1D organic conductor under gas exposure. <i>Journal of Breath Research</i> , 2011, 5, 016005.	3.0	11
12	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
13	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
14	Point-contact sensors: New prospects for a nanoscale-sensitive technique. <i>Europhysics Letters</i> , 2006, 76, 575-581.	2.0	26
15	Mechanism of Inhibiting the Corrosion of Steel by Methanotrophic Bacteria. <i>Protection of Metals</i> , 2001, 37, 22-24.	0.2	1
16	Role of microorganisms in corrosion inhibition of metals in aquatic habitats. <i>Applied Microbiology and Biotechnology</i> , 1999, 52, 639-646.	3.6	59