B A Timerkaev

List of Publications by Year
in descending order

45	334	687363 13	839539 18
papers	citations	h-index	g-index

45	45	45	41
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Germanium Catalyst for Plasma-Chemical Synthesis of Diamonds. High Energy Chemistry, 2019, 53, 390-395.	0.9	27
2	Features of Transient Processes in DC Microdischarges in Molecular Gases: From a Glow Discharge to an Arc Discharge with a Unfree or Free Cathode Regime. JETP Letters, 2020, 112, 405-412.	1.4	24
3	Plasma-Chemical Decomposition of Hydrocarbons on the Basis of the Micro-Arc Discharge with Disc Electrodes Rotating in the Bulk of Raw Materials. Russian Physics Journal, 2020, 62, 2132-2136.	0.4	22
4	Control of the glow discharge parameters at low pressures by means of a transverse supersonic gas flow. High Temperature, 2016, 54, 632-638.	1.0	21
5	Numerical Study of the Voltage Waveform Effect on the Spatiotemporal Characteristics of a Dielectric Barrier Microdischarge in Argon. Plasma Physics Reports, 2018, 44, 359-368.	0.9	20
6	Numerical Simulation of Temperature Fields in a Direct-Current Plasma Torch. Technical Physics Letters, 2018, 44, 164-166.	0.7	20
7	Drift model of a glow discharge with account for the nonlocal value of the electric field strength in the ionization source. Journal of Engineering Physics and Thermophysics, 2012, 85, 1202-1207.	0.6	18
8	Creation of Silicon Nanostructures in Electric Arc Discharge. High Energy Chemistry, 2019, 53, 162-166.	0.9	17
9	Synthesizing Germanium Nanotubes in an Electric Arc Plasma. Russian Journal of Physical Chemistry A, 2020, 94, 613-617.	0.6	17
10	Glow discharge in a transverse supersonic gas flow at low pressures. High Temperature, 2014, 52, 471-474.	1.0	16
11	Electric Microdischarges in Liquids and Prospects of Their Use in Plasma Chemistry. Journal of Engineering Physics and Thermophysics, 2014, 87, 699-703.	0.6	16
12	Growing of Carbon Nanotubes from Hydrocarbons in an Arc Plasma. Journal of Engineering Physics and Thermophysics, 2019, 92, 1248-1252.	0.6	16
13	Control of glow discharge parameters using transverse supersonic gas flow - numerical experiment. Journal of Physics: Conference Series, 2014, 567, 012031.	0.4	14
14	Carbon nanotubes formation in the decomposition of heavy hydrocarbons creeping along the surface of the glow discharge. Journal of Physics: Conference Series, 2016, 669, 012062.	0.4	13
15	Discharge creeping along the surface in the process for producing nanomaterials. Journal of Physics: Conference Series, 2017, 927, 012068.	0.4	12
16	Plasma-induced decomposition of heavy hydrocarbons. Petroleum Chemistry, 2016, 56, 869-872.	1.4	8
17	Study of a DC gas discharge with a copper cathode in a water flow. Plasma Physics Reports, 2017, 43, 771-777.	0.9	8
18	Simulation of the Carbon Synthesis Process in Atmospheric-Pressure Microwave Discharge in an Argonâ€“Ethanol Gas Mixture. High Energy Chemistry, 2021, 55, 525-530.	0.9	8

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19	The influence of a supersonic flow of gas at glow discharge. Journal of Physics: Conference Series, 2021, 1870, 012019.	0.4	7
20	The Influence of Supersonic Gas Stream on Spatial Structure of Glow Discharge. Journal of Physics: Conference Series, 2020, 1588, 012061.	0.4	7
21	Glow Discharge Characteristics in Transverse Supersonic Air Flow. Journal of Physics: Conference Series, 2014, 567, 012032.	0.4	6
22	Arc-Assisted Synthesis of Germanium Nanocrystals in Argon. High Energy Chemistry, 2021, 55, 402-406.	0.9	5
23	Longitudinal distribution of electrical parameters in normal glow discharge. Journal of Physics: Conference Series, 2014, 567, 012036.	0.4	4
24	The possibilities of control of the characteristics of a glow discharge by using the organization of supersonic gas flow. Journal of Physics: Conference Series, 2017, 927, 012079.	0.4	3
25	Self-Organization of a Laminar Structure of a Normal Glow Discharge. Journal of Engineering Physics and Thermophysics, 2016, 89, 493-498.	0.6	1
26	Numerical simulation of the surface barrier discharge in the air. Journal of Physics: Conference Series, 2019, 1328, 012082.	0.4	1
27	Numerical Investigation of a Surface Barrier Discharge in Air at Atmospheric Pressure. Russian Physics Journal, 2020, 62, 2015-2019.	0.4	1
28	Micro-arc method for the synthesis of silicon nanostructures. Journal of Physics: Conference Series, 2021, 1870, 012012.	0.4	1
29	Synthesis of Microdiamonds and Germanium Nanotubes In the Argon-Germanium Arc. Journal of Physics: Conference Series, 2022, 2270, 012030.	0.4	1
30	Heat Characteristics of Glow Discharge at Low Pressure with Supersonic Gas Flow. Journal of Physics: Conference Series, 2016, 669, 012063.	0.4	0
31	About the nature of electrical conductivity a gas discharge plasma with a water-solution cathode. Journal of Physics: Conference Series, 2018, 1058, 012037.	0.4	0
32	Study of a DC electric discharge with a cathode loaded in the water flow. Journal of Physics: Conference Series, 2018, 1058, 012038.	0.4	0
33	Synthesis of carbon nanostructures in electric discharge. Journal of Physics: Conference Series, 2019, 1328, 012039.	0.4	0
34	Internal characteristics of distribution of glow discharge at supersonic speed gas flow in the positive column area. Journal of Physics: Conference Series, 2019, 1328, 012032.	0.4	0
35	Electric arc synthesis of germanium nanotubes. Journal of Physics: Conference Series, 2019, 1328, 012081.	0.4	0
36	Synthesis of silicon nanowires in electric arc argon plasma. Journal of Physics: Conference Series, 2020, 1588, 012057.	0.4	0

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37	Plasma-chemical synthesis of germanium nanotubes. Journal of Physics: Conference Series, 2021, 1870, 012002.	0.4	0
38	Synthesis of silicon carbide in arc discharge in fuel oil. Journal of Physics: Conference Series, 2021, 1870, 012005.	0.4	0
39	Synthesis of silicon spherical nanostructures in argon plasma. Journal of Physics: Conference Series, 2021, 1870, 012004.	0.4	0
40	Synthesis of nanodiamonds and carbon nanotubes in siliconargon arc. Journal of Physics: Conference Series, 2021, 1870, 012015.	0.4	0
41	Synthesis of semiconductor nanostructures in an argon arc. Journal of Physics: Conference Series, 2021, 1870, 012013.	0.4	0
42	Nanodiamonds from Fuel. Journal of Physics: Conference Series, 2022, 2270, 012008.	0.4	0
43	Control of The Distribution of The Internal Characteristics of The Discharge Using Supersonic Gas Pumping. Journal of Physics: Conference Series, 2022, 2270, 012046.	0.4	0
44	Production of Hydrogen From Heavy Hydrocarbons. Journal of Physics: Conference Series, 2022, 2270, 012049.	0.4	0
45	Spatial Structure of Gas Dynamic Characteristics In A Glow Discharge With A Supersonic Axisymmetric Gas Flow. Journal of Physics: Conference Series, 2022, 2270, 012047.	0.4	0