Oleg A Nerushev

List of Publications by Year
in descending order

53 papers	1,782 citations	331670 21 h-index	265206 42 g-index
53 all docs	53 docs citations	53 times ranked	2460 citing authors

#	Article	IF	Citations
1	Experimental and simulation study of the high-pressure behavior of squalane and poly-Î±-olefins. Journal of Chemical Physics, 2020, 152, 074504.	3.0	22
2	Laser pulse duration dependence of blister formation on back-radiated Ti thin films for BB-LIFT. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	14
3	<i>In situ</i>studies of growth of carbon nanotubes on a local metal microheater. Nanotechnology, 2015, 26, 505601.	2.6	3
4	Laser-induced transfer of nanoparticles for gas-phase analysis. Journal of the Optical Society of America B: Optical Physics, 2014, 31, C15.	2.1	6
5	Tracing the Origin of the HSC Hierarchy Reveals an SCF-Dependent, IL-3-Independent CD43âˆ’ Embryonic Precursor. Stem Cell Reports, 2014, 3, 489-501.	4.8	122
6	Optical in situ characterisation of carbon nanotube growth. International Journal of Nanotechnology, 2012, 9, 3.	0.2	4
7	Determination of the Bending Rigidity of Graphene via Electrostatic Actuation of Buckled Membranes. Nano Letters, 2012, 12, 3526-3531.	9.1	191
8	Investigation of products of thermal methane conversion in hydrocarbon mixtures by mass spectrometry. Journal of Engineering Thermophysics, 2012, 21, 131-135.	1.4	0
9	Carbon Nanotube Field Effect Transistors with Suspended Graphene Gates. Nano Letters, 2011, 11, 3569-3575.	9.1	21
10	Direct Deposition of Aligned Single Walled Carbon Nanotubes by Fountain Pen Nanolithography. Materials Express, 2011, 1, 279-284.	0.5	3
11	Growth of Aligned MWNT Arrays Using a Micrometer Scale Local-Heater at Low Ambient Temperature. Journal of Nanoscience and Nanotechnology, 2010, 10, 4015-4022.	0.9	3
12	Methane conversion into hydrogen and carbon nanostructures. Journal of Engineering Thermophysics, 2010, 19, 23-30.	1.4	3
13	Inâ€situ Bulk Electrophoretic Separation of Singleâ€Walled Carbon Nanotubes Grown by Gasâ€Phase Catalytic Hydrocarbon Decomposition. Chemical Vapor Deposition, 2010, 16, 225-230.	1.3	2
14	Dispersing Individual Single-Wall Carbon Nanotubes in Aqueous Surfactant Solutions below the cmc. Journal of Physical Chemistry C, 2010, 114, 2-9.	3.1	74
15	Size distribution function for iron clusters formed during the synthesis of carbon nanotubes by Fe(CO)5 decomposition. Technical Physics Letters, 2009, 35, 203-206.	0.7	0
16	The properties of carbon-carbonic condensate synthesized in the plasma arc. Thermophysics and Aeromechanics, 2009, 16, 647-650.	0.5	4
17	In situ Raman studies of single-walled carbon nanotubes grown by local catalyst heating. Chemical Physics Letters, 2008, 457, 206-210.	2.6	17
18	Local heating method for growth of aligned carbon nanotubes at low ambient temperature. Low Temperature Physics, 2008, 34, 834-837.	0.6	11

#	Article	IF	Citations
19	Dielectrophoresis-Induced Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes in a Continuous Flow Microfluidic System. Journal of Nanoscience and Nanotechnology, 2007, 7, 3431-3435.	0.9	11
20	In situgrowth rate measurements during plasma-enhanced chemical vapour deposition of vertically aligned multiwall carbon nanotube films. Nanotechnology, 2007, 18, 305702.	2.6	14
21	Nucleation and aligned growth of multi-wall carbon nanotube films during thermal CVD. Carbon, 2007, 45, 2065-2071.	10.3	13
22	Dc plasma-enhanced chemical vapour deposition growth of carbon nanotubes and nanofibres: in situ spectroscopy and plasma current dependence. Applied Physics A: Materials Science and Processing, 2007, 88, 261-267.	2.3	14
23	Marangoni effect inSiO2during field-directed chemical vapor deposition growth of carbon nanotubes. Physical Review B, 2006, 73, .	3.2	11
24	Field emission induced deformations in SiO2 during CVD growth of carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3524-3527.	1.5	5
25	Low ambient temperature CVD growth of carbon nanotubes. Applied Physics A: Materials Science and Processing, 2006, 84, 243-246.	2.3	23
26	Fabrication of individual vertically aligned carbon nanofibres on metal substrates from prefabricated catalyst dots. Nanotechnology, 2006, 17, 790-794.	2.6	15
27	Cross-sectional TEM investigation of nickel-catalysed carbon nanotube films grown by plasma-enhanced CVD. Journal of Microscopy, 2005, 219, 69-75.	1.8	10
28	Plasma-enhanced chemical vapour deposition growth of carbon nanotubes on different metal underlayers. Nanotechnology, 2005, 16, 458-466.	2.6	82
29	Covalent amino-functionalisation of single-wall carbon nanotubes. Journal of Materials Chemistry, 2005, 15, 3334.	6.7	101
30	Highly efficient electron field emission from decorated multiwalled carbon nanotube films. Applied Physics Letters, 2004, 85, 4487.	3.3	35
31	The role of diffusion current in the formation of spherical striations. Technical Physics Letters, 2004, 30, 106-108.	0.7	3
32	Synthesis of carbon nanotube films by thermal CVD in the presence of supported catalyst particles. Part I: The silicon substrate/nanotube film interface. Journal of Materials Science: Materials in Electronics, 2004, 15, 533-543.	2.2	23
33	Synthesis of carbon nanotube films by thermal CVD in the presence of supported catalyst particles. Part II: the nanotube film. Journal of Materials Science: Materials in Electronics, 2004, 15, 583-594.	2.2	24
34	Growth of carbon nanotubes from C60. Applied Physics A: Materials Science and Processing, 2004, 78, 253-261.	2.3	34
35	High growth rates and wall decoration of carbon nanotubes grown by plasma-enhanced chemical vapour deposition. Chemical Physics Letters, 2004, 383, 385-390.	2.6	36
36	Selective growth of individual multiwalled carbon nanotubes. Current Applied Physics, 2004, 4, 591-594.	2.4	6

#	Article	IF	Citations
37	Electron field emission from multi-walled carbon nanotubes. Carbon, 2004, 42, 1165-1168.	10.3	48
38	Viscosity of H2âˆ'CO2Mixtures at (500, 800, and 1100) K. Journal of Chemical & Engineering Data, 2004, 49, 684-687.	1.9	18
39	A Three-Terminal Carbon Nanorelay. Nano Letters, 2004, 4, 2027-2030.	9.1	214
40	Glow intensity profile in a spherically stratified gas discharge. Plasma Physics Reports, 2003, 29, 796-801.	0.9	1
41	Particle size dependence and model for iron-catalyzed growth of carbon nanotubes by thermal chemical vapor deposition. Journal of Applied Physics, 2003, 93, 4185-4190.	2.5	87
42	Blackbody radiation from resistively heated multiwalled carbon nanotubes during field emission. Applied Physics Letters, 2002, 81, 1095-1097.	3.3	65
43	The temperature dependence of Fe-catalysed growth of carbon nanotubes on silicon substrates. Physica B: Condensed Matter, 2002, 323, 51-59.	2.7	48
44	Carbon nanotube films obtained by thermal chemical vapour deposition. Journal of Materials Chemistry, 2001, 11, 1122-1132.	6.7	55
45	Raman spectroscopy and field-emission properties of CVD-grown carbon-nanotube films. Applied Physics A: Materials Science and Processing, 2001, 73, 409-418.	2.3	187
46	The spherical stratification of discharge in high-molecular-mass gases. Technical Physics Letters, 2001, 27, 118-120.	0.7	2
47	Properties of a spherical stratified gas discharge. Plasma Physics Reports, 2000, 26, 78-83.	0.9	4
48	Electron-stimulated condensation of carbon dioxide at a electronegative impurity. Technical Physics Letters, 1998, 24, 10-11.	0.7	1
49	Spherical stratification of a glow discharge. Physical Review E, 1998, 58, 4897-4902.	2.1	45
50	Rotational relaxation and transition to turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 232, 243-246.	2.1	25
51	Quadrupolar light scattering by fullerene. Chemical Physics Letters, 1995, 234, 265-268.	2.6	1
52	Anomalous polarizability of fullerene. Chemical Physics Letters, 1993, 212, 480-482.	2.6	14
53	Study of a diffusion pump ejector. Vacuum, 1993, 44, 749-752.	3.5	7