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	A Three-Terminal Carbon Nanorelay. Nano Letters, 2004, 4, 2027-2030.	9.1	214
2	Determination of the Bending Rigidity of Graphene via Electrostatic Actuation of Buckled Membranes. Nano Letters, 2012, 12, 3526-3531.	9.1	191
3	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
4	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
5	Covalent amino-functionalisation of single-wall carbon nanotubes. Journal of Materials Chemistry, 2005, 15, 3334.	6.7	101
6	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
7	Plasma-enhanced chemical vapour deposition growth of carbon nanotubes on different metal underlayers. Nanotechnology, 2005, 16, 458-466.	2.6	82
8	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
9	Blackbody radiation from resistively heated multiwalled carbon nanotubes during field emission. Applied Physics Letters, 2002, 81, 1095-1097.	3.3	65
10	Carbon nanotube films obtained by thermal chemical vapour deposition. Journal of Materials Chemistry, 2001, 11, 1122-1132.	6.7	55
11	The temperature dependence of Fe-catalysed growth of carbon nanotubes on silicon substrates. Physica B: Condensed Matter, 2002, 323, 51-59.	2.7	48
12	Electron field emission from multi-walled carbon nanotubes. Carbon, 2004, 42, 1165-1168.	10.3	48
13	Spherical stratification of a glow discharge. Physical Review E, 1998, 58, 4897-4902.	2.1	45
14	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
15	Highly efficient electron field emission from decorated multiwalled carbon nanotube films. Applied Physics Letters, 2004, 85, 4487.	3.3	35
16	Growth of carbon nanotubes from C60. Applied Physics A: Materials Science and Processing, 2004, 78, 253-261.	2.3	34
17	Rotational relaxation and transition to turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 232, 243-246.	2.1	25
18	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

#	Article	IF	Citations
19	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
20	Low ambient temperature CVD growth of carbon nanotubes. Applied Physics A: Materials Science and Processing, 2006, 84, 243-246.	2.3	23
21	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
22	Carbon Nanotube Field Effect Transistors with Suspended Graphene Gates. Nano Letters, 2011, 11, 3569-3575.	9.1	21
23	Viscosity of H2â^'CO2Mixtures at (500, 800, and 1100) K. Journal of Chemical & Engineering Data, 2004, 49, 684-687.	1.9	18
24	In situ Raman studies of single-walled carbon nanotubes grown by local catalyst heating. Chemical Physics Letters, 2008, 457, 206-210.	2.6	17
25	Fabrication of individual vertically aligned carbon nanofibres on metal substrates from prefabricated catalyst dots. Nanotechnology, 2006, 17, 790-794.	2.6	15
26	Anomalous polarizability of fullerene. Chemical Physics Letters, 1993, 212, 480-482.	2.6	14
27	In situgrowth rate measurements during plasma-enhanced chemical vapour deposition of vertically aligned multiwall carbon nanotube films. Nanotechnology, 2007, 18, 305702.	2.6	14
28	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
29	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
30	Nucleation and aligned growth of multi-wall carbon nanotube films during thermal CVD. Carbon, 2007, 45, 2065-2071.	10.3	13
31	Marangoni effect inSiO2during field-directed chemical vapor deposition growth of carbon nanotubes. Physical Review B, 2006, 73, .	3.2	11
32	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
33	Local heating method for growth of aligned carbon nanotubes at low ambient temperature. Low Temperature Physics, 2008, 34, 834-837.	0.6	11
34	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
35	Study of a diffusion pump ejector. Vacuum, 1993, 44, 749-752.	3.5	7
36	Selective growth of individual multiwalled carbon nanotubes. Current Applied Physics, 2004, 4, 591-594.	2.4	6

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37	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
38	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
39	Properties of a spherical stratified gas discharge. Plasma Physics Reports, 2000, 26, 78-83.	0.9	4
40	The properties of carbon-carbonic condensate synthesized in the plasma arc. Thermophysics and Aeromechanics, 2009, 16, 647-650.	0.5	4
41	Optical in situ characterisation of carbon nanotube growth. International Journal of Nanotechnology, 2012, 9, 3.	0.2	4
42	The role of diffusion current in the formation of spherical striations. Technical Physics Letters, 2004, 30, 106-108.	0.7	3
43	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
44	Methane conversion into hydrogen and carbon nanostructures. Journal of Engineering Thermophysics, 2010, 19, 23-30.	1.4	3
45	Direct Deposition of Aligned Single Walled Carbon Nanotubes by Fountain Pen Nanolithography. Materials Express, 2011, 1, 279-284.	0.5	3
46	<i>In situ</i>studies of growth of carbon nanotubes on a local metal microheater. Nanotechnology, 2015, 26, 505601.	2.6	3
47	The spherical stratification of discharge in high-molecular-mass gases. Technical Physics Letters, 2001, 27, 118-120.	0.7	2
48	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
49	Quadrupolar light scattering by fullerene. Chemical Physics Letters, 1995, 234, 265-268.	2.6	1
50	Electron-stimulated condensation of carbon dioxide at a electronegative impurity. Technical Physics Letters, 1998, 24, 10-11.	0.7	1
51	Glow intensity profile in a spherically stratified gas discharge. Plasma Physics Reports, 2003, 29, 796-801.	0.9	1
52	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
53	Investigation of products of thermal methane conversion in hydrocarbon mixtures by mass spectrometry. Journal of Engineering Thermophysics, 2012, 21, 131-135.	1.4	0