Timur Nikitin

List of Publications by Year in descending order

35 papers	781 citations	623734 14 h-index	501196 28 g-index
35 all docs	35 docs citations	35 times ranked	1211 citing authors

#	Article	IF	Citations
1	Thermal study on electrospun polyvinylpyrrolidone/ammonium metatungstate nanofibers: optimising the annealing conditions for obtaining WO3 nanofibers. Journal of Thermal Analysis and Calorimetry, 2011, 105, 73-81.	3.6	95
2	Giant Raman gain in silicon nanocrystals. Nature Communications, 2012, 3, 1220.	12.8	91
3	Analysis of the Size Distribution of Single-Walled Carbon Nanotubes Using Optical Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 1143-1148.	4.6	62
4	Photocatalytic Properties of WO₃/TiO₂ Core/Shell Nanofibers prepared by Electrospinning and Atomic Layer Deposition. Chemical Vapor Deposition, 2013, 19, 149-155.	1.3	62
5	Characterization of ion-irradiation-induced defects in multi-walled carbon nanotubes. New Journal of Physics, 2011, 13, 073004.	2.9	55
6	Pyroelectric effect and polarization instability in self-assembled diphenylalanine microtubes. Applied Physics Letters, 2016, 109, .	3.3	49
7	Optical and Structural Properties of Si Nanocrystals in SiO2 Films. Nanomaterials, 2015, 5, 614-655.	4.1	42
8	Controlled Synthesis of Single-Walled Carbon Nanotubes in an Aerosol Reactor. Journal of Physical Chemistry C, 2011, 115, 7309-7318.	3.1	40
9	Low-temperature photoluminescence in self-assembled diphenylalanine microtubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1658-1662.	2.1	40
10	Light-emission mechanism of thermally annealed silicon-rich silicon oxide revisited: What is the role of silicon nanocrystals?. Applied Physics Letters, 2009, 94, 043115.	3.3	27
11	Programming nanostructured soft biological surfaces by atomic layer deposition. Nanotechnology, 2013, 24, 245701.	2.6	27
12	Optical and structural properties of SiOx films grown by molecular beam deposition: Effect of the Si concentration and annealing temperature. Journal of Applied Physics, 2012, 112, .	2.5	24
13	Optical properties of silicon nanocrystals in silica: Results from spectral filtering effect, m-line technique, and x-ray photoelectron spectroscopy. Journal of Applied Physics, 2008, 104, .	2.5	21
14	Ion irradiation of multiâ€walled boron nitride nanotubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1256-1259.	0.8	17
15	Continuous-wave laser annealing of Si-rich oxide: A microscopic picture of macroscopic Siî—¸SiO2 phase separation. Journal of Applied Physics, 2010, 108, .	2.5	15
16	Free-standing SiO2 films containing Si nanocrystals directly suitable for transmission electron microscopy. Microelectronics Journal, 2008, 39, 518-522.	2.0	12
17	Ion irradiation of carbon nanotubes encapsulating cobalt crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2618-2621.	2.7	11
18	Optical memory of silicon nanocrystals with submicron spatial resolution and very high thermal stability. Applied Physics Letters, 2009, 94, 173116.	3.3	11

#	Article	IF	Citations
19	Optical and structural properties of siliconâ€rich silicon oxide films: Comparison of ion implantation and molecular beam deposition methods. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2176-2181.	1.8	11
20	Self-assembled diphenylalanine peptide microtubes covered by reduced graphene oxide/spiky nickel nanocomposite: An integrated nanobiomaterial for multifunctional applications. Materials and Design, 2018, 142, 149-157.	7.0	11
21	Giant Raman gain in annealed silicon-rich silicon oxide films: Measurements at 785 nm. Applied Physics Letters, 2013, 103, 151110.	3.3	10
22	Propiolic Acid in Solid Nitrogen: NIR- and UV-Induced cis â†' trans Isomerization and Matrix-Site-Dependent trans â†' cis Tunneling. Journal of Physical Chemistry A, 2019, 123, 1581-1593.	2.5	7
23	Strong impact of LiNbO3 fillers on local electromechanical and electrochemical properties of P(VDF-TrFe) polymer disclosed via scanning probe microscopy. Applied Surface Science, 2019, 470, 1093-1100.	6.1	7
24	Laser Writing of Eutectic Galliumâ€“Indium Alloy Grapheneâ€Oxide Electrodes and Semitransparent Conductors. Advanced Materials Technologies, 2022, 7, 2101238.	5.8	6
25	2,4,6-Trinitro-N-(m-tolyl)aniline: A New Polymorphic Material Exhibiting Different Colors. Crystal Growth and Design, 2021, 21, 7269-7284.	3.0	6
26	Laserâ€Assisted Rapid Fabrication of Largeâ€Scale Graphene Oxide Transparent Conductors. Advanced Materials Interfaces, 2022, 9, .	3.7	6
27	Surface fingerprints of individual silicon nanocrystals in laser-annealed Si/SiO2 superlattice: Evidence of nanoeruptions of laser-pressurized silicon. Journal of Applied Physics, 2012, 111, 124302.	2.5	3
28	Structural, spectroscopic, and photochemical study of ethyl propiolate isolated in cryogenic argon and nitrogen matrices. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118670.	3.9	3
29	Continuous-Wave Laser Annealing of a Si/SiO₂ Superlattice: Effect of the Ambient Atmosphere and Exposure Period. Science of Advanced Materials, 2014, 6, 1000-1010.	0.7	3
30	Light induced reactions in cryogenic matrices (highlights 2017â€“2018). Photochemistry, 2019, , 28-69.	0.2	2
31	Matrix Isolation Study of Fumaric and Maleic Acids in Solid Nitrogen. Journal of Physical Chemistry A, 0, , .	2.5	2
32	Matrix isolation study of methyl propiolate in argon and nitrogen matrices. Chemical Physics Letters, 2020, 749, 137427.	2.6	1
33	Light induced reactions in cryogenic matrices (highlights 2015â€“2016). Photochemistry, 0, , 22-67.	0.2	1
34	Micro-Raman Spectroscopy and X-ray Diffraction Analyses of the Core and Shell Compartments of an Iron-Rich Fulgurite. Molecules, 2022, 27, 3053.	3.8	1
35	Laser Writing of Eutectic Galliumâ€“Indium Alloy Grapheneâ€Oxide Electrodes and Semitransparent Conductors (Adv. Mater. Technol. 5/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0