

Taras M Radchenko

List of Publications by Year in descending order

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papers

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430442

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36
times ranked

332
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of correlated impurities on conductivity of graphene sheets: Time-dependent real-space Kubo approach. <i>Physical Review B</i> , 2012, 86, .	1.1	76
2	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	51
3	Effects of nitrogen-doping configurations with vacancies on conductivity in graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2270-2274.	0.9	49
4	Effect of charged line defects on conductivity in graphene: Numerical Kubo and analytical Boltzmann approaches. <i>Physical Review B</i> , 2013, 87, .	1.1	37
5	On atomic-configuration-mediated correlation between electrotransport and electrochemical properties of graphene. <i>Carbon</i> , 2016, 101, 37-48.	5.4	35
6	Semi-Empirical Parameterization of Interatomic Interactions and Kinetics of the Atomic Ordering in Ni-Fe-C Permalloys and Elinvars. <i>Defect and Diffusion Forum</i> , 2008, 280-281, 29-78.	0.4	31
7	The application of radiation diffuse scattering to the calculation of phase diagrams of F.C.C. substitutional alloys. <i>Intermetallics</i> , 2003, 11, 1319-1326.	1.8	30
8	Defect-Induced Fingerprints in the Electron Density of States of Strained Graphene Layers: Diffraction and Simulation Methods. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800406.	0.7	29
9	Martensitic Fe_{16}N_2 -Type Phase of Non-Stoichiometric Composition: Current Status of Research and Microscopic Statistical-Thermodynamic Model. <i>Progress in Physics of Metals</i> , 2020, 21, 580-618.	0.5	29
10	A statistical-thermodynamic analysis of stably ordered substitutional structures in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2047-2054.	1.3	28
11	Statistical Thermodynamics and Kinetics of Long-Range Order in Metal-Doped Graphene. <i>Solid State Phenomena</i> , 0, 150, 43-72.	0.3	27
12	Kinetics of atomic ordering in metal-doped graphene. <i>Solid State Sciences</i> , 2010, 12, 204-209.	1.5	27
13	Magnetic field-, strain-, and disorder-induced responses in an energy spectrum of graphene. <i>Annals of Physics</i> , 2018, 398, 80-93.	1.0	27
14	Statistical-thermodynamic description of the order-disorder transformation of D019-type phase in Ti-Al alloy. <i>Journal of Alloys and Compounds</i> , 2008, 452, 122-126.	2.8	26
15	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. <i>Applied Surface Science</i> , 2018, 442, 185-188.	3.1	26
16	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	25
17	Atomic-Ordering Kinetics and Diffusivities in Ni-Fe Permalloy. <i>Defect and Diffusion Forum</i> , 0, 273-276, 525-530.	0.4	24
18	Conductivity of epitaxial and CVD graphene with correlated line defects. <i>Solid State Communications</i> , 2014, 195, 88-94.	0.9	24

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19	Statistical Thermodynamics and Ordering Kinetics of D0 ₁₉ -Type Phase: Application of the Models for H.C.P.-TiAl Alloy. Solid State Phenomena, 2008, 138, 283-302.	0.3	20
20	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. Optical Materials, 2019, 96, 109284.	1.7	19
21	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. Materials Today: Proceedings, 2021, 35, 523-529.	0.9	14
22	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. Springer Proceedings in Physics, 2018, , 25-41.	0.1	13
23	Sensitivity to strains and defects for manipulating the conductivity of graphene. Europhysics Letters, 2020, 132, 48002.	0.7	13
24	Unraveling the electronic properties of graphene with substitutional oxygen. 2D Materials, 2021, 8, 045035.	2.0	9
25	Kinetics Parameters of Atomic Migration and Diffuse Scattering of Radiations within the F.C.C.-NiAl Alloys. Defect and Diffusion Forum, 2008, 273-276, 520-524.	0.4	7
26	Stable superstructures in a binary honeycomb-lattice gas. International Journal of Hydrogen Energy, 2011, 36, 1338-1343.	3.8	7
27	Diffusive Relaxation of Short-Range Order Parameters and the Time Evolution of Diffuse Radiation Scattering in Solid Solutions. Defect and Diffusion Forum, 2001, 194-199, 183-188.	0.4	4
28	Effect of weak impurities on conductivity of uniaxially strained graphene. , 2017, , .		4
29	COMMENTS CONCERNING PARAMETERS OF THE SHORT-RANGE ORDER EVOLUTION DETERMINED FROM THE DATA ON KINETICS OF A HEAT-CAPACITY RELAXATION FOR TiH ALLOY. , 2007, , 229-234.		4
30	Kinetics of the Orientational Long-Range Ordering of Interstitial Hydrogen Atoms in Metals Having Hexagonal-Close Packed Structure. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 489-495.	0.1	3
31	Ordering kinetics of dopant atoms in graphene lattice with stoichiometric compositions of 1/3 and 1/6. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 231-238.	0.5	3
32	Influence of impurity defects on vibrational and electronic structure of graphene. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 183-187.	0.5	2
33	Tuning the electron band structure of graphene for optoelectronics. , 2019, , .		2