

Taras M Radchenko

List of Publications by Citations

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33
papers

454
citations

15
h-index

20
g-index

36
ext. papers

615
ext. citations

2.5
avg, IF

3.88
L-index

#	Paper	IF	Citations
33	Influence of correlated impurities on conductivity of graphene sheets: Time-dependent real-space Kubo approach. <i>Physical Review B</i> , 2012 , 86,	3.3	58
32	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	2.3	38
31	Effect of charged line defects on conductivity in graphene: Numerical Kubo and analytical Boltzmann approaches. <i>Physical Review B</i> , 2013 , 87,	3.3	31
30	On adatomic-configuration-mediated correlation between electrotransport and electrochemical properties of graphene. <i>Carbon</i> , 2016 , 101, 37-48	10.4	27
29	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , 2019 , 126, 054302	2.5	27
28	A statistical-thermodynamic analysis of stably ordered substitutional structures in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2047-2054	3	21
27	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	0.7	21
26	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	3.5	20
25	Conductivity of epitaxial and CVD graphene with correlated line defects. <i>Solid State Communications</i> , 2014 , 195, 88-94	1.6	19
24	Statistical Thermodynamics and Kinetics of Long-Range Order in Metal-Doped Graphene. <i>Solid State Phenomena</i> , 2009 , 150, 43-72	0.4	19
23	Defect-Pattern-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	1.3	18
22	Kinetics of atomic ordering in metal-doped graphene. <i>Solid State Sciences</i> , 2010 , 12, 204-209	3.4	18
21	Statistical-thermodynamic description of the order-disorder transformation of D019-type phase in TiAl alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 452, 122-126	5.7	18
20	Magnetic field-, strain-, and disorder-induced responses in an energy spectrum of graphene. <i>Annals of Physics</i> , 2018 , 398, 80-93	2.5	18
19	Atomic-Ordering Kinetics and Diffusivities in NiBe Permalloy. <i>Defect and Diffusion Forum</i> , 2008 , 273-276, 525-530	0.7	17
18	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. <i>European Physical Journal B</i> , 2017 , 90, 1	1.2	15
17	Statistical Thermodynamics and Ordering Kinetics of D019-Type Phase: Application of the Models for H.C.P.-TiAl Alloy. <i>Solid State Phenomena</i> , 2008 , 138, 283-302	0.4	15

16	Martensitic γ -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	1.6	8
15	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. <i>Applied Surface Science</i> , 2018 , 442, 185-188	6.7	7
14	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. <i>Optical Materials</i> , 2019 , 96, 109284	3.3	6
13	Sensitivity to strains and defects for manipulating the conductivity of graphene. <i>Europhysics Letters</i> , 2020 , 132, 48002	1.6	6
12	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. <i>Springer Proceedings in Physics</i> , 2018 , 25-41	0.2	4
11	Stable superstructures in a binary honeycomb-lattice gas. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1338-1343	6.7	3
10	Kinetics Parameters of Atomic Migration and Diffuse Scattering of Radiations within the F.C.C.-Ni ₃ Al Alloys. <i>Defect and Diffusion Forum</i> , 2008 , 273-276, 520-524	0.7	3
9	Diffusive Relaxation of Short-Range Order Parameters and the Time Evolution of Diffuse Radiation Scattering in Solid Solutions. <i>Defect and Diffusion Forum</i> , 2001 , 194-199, 183-188	0.7	3
8	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. <i>Materials Today: Proceedings</i> , 2021 , 35, 523-529	1.4	3
7	Unraveling the electronic properties of graphene with substitutional oxygen. <i>2D Materials</i> ,	5.9	3
6	Effect of weak impurities on conductivity of uniaxially strained graphene 2017 ,		2
5	COMMENTS CONCERNING PARAMETERS OF THE SHORT-RANGE ORDER EVOLUTION DETERMINED FROM THE DATA ON KINETICS OF A HEAT-CAPACITY RELAXATION FOR Lu ₃ Al ALLOY 2007 , 229-234		2
4	The Impact of Uniaxial Strain and Defect Pattern on Magnetoelectronic and Transport Properties of Graphene 2019 , 451-502		1
3	Ordering kinetics of dopant atoms in graphene lattice with stoichiometric compositions of 1/3 and 1/6. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 231-238	0.9	1
2	Kinetics of the Orientational Long-Range Ordering of Interstitial Hydrogen Atoms in Metals Having Hexagonal-Close Packed Structure. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008 , 489-495	0.3	1
1	Influence of impurity defects on vibrational and electronic structure of graphene. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 183-187	0.9	0