Taras M Radchenko

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. *Materials Today: Proceedings*, **2021**, 35, 523-529	1.4	3
32	Sensitivity to strains and defects for manipulating the conductivity of graphene. *Europhysics Letters* , **2020**, 132, 48002	1.6	6
31	Martensitic α″-Fe16N2-Type Phase of Non-Stoichiometric Composition: Current Status of Research and Microscopic Statistical-Thermodynamic Model. *Progress in Physics of Metals*, **2020**, 21, 580-618	1.6	8
30	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. *Optical Materials*, **2019**, 96, 109284	3.3	6
29	Defect-Pattern-Induced Fingerprints in the Electron Density of States of Strained Graphene Layers: Diffraction and Simulation Methods. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800406	1.3	18
28	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. *Journal of Applied Physics*, **2019**, 126, 054302	2.5	27
27	The Impact of Uniaxial Strain and Defect Pattern on Magnetoelectronic and Transport Properties of Graphene **2019**, 451-502		1
26	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. *Applied Surface Science*, **2018**, 442, 185-188	6.7	7
25	Magnetic field-, strain-, and disorder-induced responses in an energy spectrum of graphene. *Annals of Physics*, **2018**, 398, 80-93	2.5	18
24	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. *Springer Proceedings in Physics*, **2018**, 25-41	0.2	4
23	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. *European Physical Journal B*, **2017**, 90, 1	1.2	15
22	Effect of weak impurities on conductivity of uniaxially strained graphene **2017**,		2
21	On adatomic-configuration-mediated correlation between electrotransport and electrochemical properties of graphene. *Carbon*, **2016**, 101, 37-48	10.4	27
20	Conductivity of epitaxial and CVD graphene with correlated line defects. *Solid State Communications*, **2014**, 195, 88-94	1.6	19
19	Effects of nitrogen-doping configurations with vacancies on conductivity in graphene. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2014**, 378, 2270-2274	2.3	38
18	Ordering kinetics of dopant atoms in graphene lattice with stoichiometric compositions of 1/3 and 1/6. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 231-238	0.9	1
17	Influence of impurity defects on vibrational and electronic structure of graphene. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 183-187	0.9	0

16	Effect of charged line defects on conductivity in graphene: Numerical Kubo and analytical Boltzmann approaches. *Physical Review B*, **2013**, 87,	3.3	31
15	Influence of correlated impurities on conductivity of graphene sheets: Time-dependent real-space Kubo approach. *Physical Review B*, **2012**, 86,	3.3	58
14	Stable superstructures in a binary honeycomb-lattice gas. *International Journal of Hydrogen Energy*, **2011**, 36, 1338-1343	6.7	3
13	Kinetics of atomic ordering in metal-doped graphene. *Solid State Sciences*, **2010**, 12, 204-209	3.4	18
12	A statistical-thermodynamic analysis of stably ordered substitutional structures in graphene. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 2047-2054	3	21
11	Statistical Thermodynamics and Kinetics of Long-Range Order in Metal-Doped Graphene. *Solid State Phenomena*, **2009**, 150, 43-72	0.4	19
10	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	0.3	1
9	Statistical-thermodynamic description of the order□disorder transformation of D019-type phase in Ti□Al alloy. *Journal of Alloys and Compounds*, **2008**, 452, 122-126	5.7	18
8	Kinetics Parameters of Atomic Migration and Diffuse Scattering of Radiations within the F.C.C.-Ni□Al Alloys. *Defect and Diffusion Forum*, **2008**, 273-276, 520-524	0.7	3
7	Atomic-Ordering Kinetics and Diffusivities in Ni□e Permalloy. *Defect and Diffusion Forum*, **2008**, 273-276, 525-530	0.7	17
6	Semi-Empirical Parameterization of Interatomic Interactions and Kinetics of the Atomic Ordering in Ni-Fe-C Permalloys and Elinvars. *Defect and Diffusion Forum*, **2008**, 280-281, 29-78	0.7	21
5	Statistical Thermodynamics and Ordering Kinetics of D019-Type Phase: Application of the Models for H.C.P.-Ti□Al Alloy. *Solid State Phenomena*, **2008**, 138, 283-302	0.4	15
4	COMMENTS CONCERNING PARAMETERS OF THE SHORT-RANGE ORDER EVOLUTION DETERMINED FROM THE DATA ON KINETICS OF A HEAT-CAPACITY RELAXATION FOR Lu□ ALLOY **2007**, 229-234		2
3	The application of radiation diffuse scattering to the calculation of phase diagrams of F.C.C. substitutional alloys. *Intermetallics*, **2003**, 11, 1319-1326	3.5	20
2	Diffusive Relaxation ofShort-Range Order Parametersr and the Time Evolution of Diffuse Radiation Scattering in Solid Solutions. *Defect and Diffusion Forum*, **2001**, 194-199, 183-188	0.7	3
1	Unraveling the electronic properties of graphene with substitutional oxygen. *2D Materials*,	5.9	3