Shaban R Ghorbani

List of Publications by Year
in descending order

44	833	567144 15	477173 29
papers	citations	h-index	g-index

45	45	45	1063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical performance and complex impedance properties of reduced-graphene oxide/polypyrrole nanofiber nanocomposite. Ionics, 2021, 27, 1279-1290.	1.2	13
2	Iron (II and III) Oxides/Reduced Graphene Oxide/Polypyrrole Ternary Nanocomposite as Electrochemical Supercapacitor Electrode. Journal of the Electrochemical Society, 2021, 168, 030543.	1.3	12
3	Fluctuation Conductivity and Its Scaling Behavior in BaFe1.9Co0.1As2 Superconductor. Journal of Superconductivity and Novel Magnetism, 2020, 33, 959-964.	0.8	1
4	On the Determination of Pinning Mechanisms and Regimes in Type-II Superconductors with Weak Thermal Fluctuations. Journal of Superconductivity and Novel Magnetism, 2020, 33, 971-980.	0.8	5
5	Angular Dependence of Fluctuation Conductivity in BaFe1.9Co0.1As2 Single Crystal. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2535-2541.	0.8	1
6	Excess conductivity in nano-carbon doped MgB2 superconductor. European Physical Journal B, 2019, 92, 1.	0.6	2
7	LiMn2O4 nanopowders synthesized via gelatin-assisted solâ€“gel method: Optimization of pH and calcination temperature. International Journal of Modern Physics B, 2019, 33, 1950063.	1.0	1
8	Relation between resistivity and temperature in the presence of two magnetic flux pinning mechanisms. Physica C: Superconductivity and Its Applications, 2018, 548, 97-98.	0.6	3
9	Low-index surface investigation of KAlH4: Theoretical attempt to study the surface effect on the hydrogen storage properties. International Journal of Hydrogen Energy, 2018, 43, 8835-8845.	3.8	0
10	In-field Conductivity Fluctuations in Ba0.72K0.28Fe2As2 Single Crystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2349-2353.	0.8	5
11	Flux pinning mechanism in codoped-MgB2 with Al2O3 and SiC. Physica C: Superconductivity and Its Applications, 2018, 548, 107-108.	0.6	1
12	The effect of gelatin as a chelating agent on the synthesis and characterization of LiMn2O4 nanopowders prepared via solâ€“gel method. Journal of Sol-Gel Science and Technology, 2018, 88, 465-473.	1.1	5
13	The charge transport mechanisms in conducting polymer polypyrrole films and fibers. Materials Research Express, 2018, 5, 105701.	0.8	9
14	Magnetoresistance mechanisms in carbon-nanotube yarns. Synthetic Metals, 2018, 242, 55-60.	2.1	5
15	AB-initio study of pressure-induced aluminum hydrides AAlH 4 (AÂ=ÂLi, Na, K, Rb, Cs). International Journal of Hydrogen Energy, 2017, 42, 25303-25309.	3.8	7
16	The second peak effect and vortex pinning mechanisms in Ba(Fe,Ni)2As2 superconductors. Solid State Communications, 2017, 264, 6-9.	0.9	0
17	Temperature and field dependence of the flux pinning mechanisms in Fe 1.06 Te 0.6 Se 0.4 single crystal. Solid State Communications, 2016, 246, 29-32.	0.9	6
18	Giant enhancement in critical current density, up to a hundredfold, in superconducting NaFe0.97Co0.03 As single crystals under hydrostatic pressure. Scientific Reports, 2015, 5, 10606.	1.6	24

#	Article	IF	Citations
19	Comparison of flux pinning in Si- and SiCl4-doped MgB2superconductors: evidence for coexistence of different pinning mechanisms. Superconductor Science and Technology, 2015, 28, 125006.	1.8	4
20	The Effect of Anisotropy of H c 2 on Transport Current in Silicone Oil-Doped MgB2 Superconductor. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1737-1741.	0.8	0
21	Hydrostatic pressure: A very effective approach to significantly enhance critical current density in granular iron pnictide superconductors. Scientific Reports, 2015, 5, 8213.	1.6	37
22	Hydrostatic pressure induced transition fromÎT_CtoÎ´â„“pinning mechanism in MgB₂. Superconductor Science and Technology, 2015, 28, 055001.	1.8	17
23	Highly Conductive Carbon Nanotubeâ€Graphene Hybrid Yarn. Advanced Functional Materials, 2014, 24, 5859-5865.	7.8	113
24	Fluctuation Conductivity of RE1âˆ'2x Ca x M x Ba2Cu3O7âˆ'Î´ (RE=Nd, Y and M=Pr, Th) Superconductors. Journal of Superconductivity and Novel Magnetism, 2014, 27, 749-754.	0.8	9
25	Flux pinning mechanism in SiC and nano-C doped MgB₂: evidence for transformation fromÎT_ctoÎ´â„“pinning. Superconductor Science and Technology, 2014, 27, 125003.	1.8	11
26	Simulation of Light C⁴⁺ Ion Irradiation and Its Enhancement to the Critical Current Density in BaFe_{1.9}Ni_{0.1}As₂ Single Crystals. Science of Advanced Materials, 2014, 6, 1650-1654.	0.1	1
27	Vortex-glass phase transition and enhanced flux pinning in C⁴⁺-irradiated BaFe_{1.9}Ni_{0.1}As₂superconducting single crystals. Superconductor Science and Technology, 2013, 26, 095014.	1.8	22
28	Flux pinning and vortex transitions in doped BaFe2As2 single crystals. Applied Physics Letters, 2012, 100, .	1.5	40
29	Angular dependence of pinning potential, upper critical field, and irreversibility field in underdoped BaFe1.9Co0.1As2 single crystal. Applied Physics Letters, 2012, 100, .	1.5	18
30	Effect of conducting polypyrrole on the transport properties of carbon nanotube yarn. Thin Solid Films, 2012, 520, 7049-7053.	0.8	6
31	Fluctuation of mean free path and transition temperature induced vortex pinning in (Ba,K)Fe2As2 superconductors. Applied Physics Letters, 2012, 100, 212601.	1.5	19
32	Preparation and characterization of hybrid conducting polymerâ€“carbon nanotube yarn. Nanoscale, 2012, 4, 940-945.	2.8	50
33	EXCESS FLUCTUATION CONDUCTIVITY AND SUPERCONDUCTING PARAMETERS OF CaLa-DOPED Nd-123. Modern Physics Letters B, 2011, 25, 1915-1924.	1.0	10
34	Coexistence of the Î´land Î´T_cflux pinning mechanisms in nano-Si-doped MgB₂. Superconductor Science and Technology, 2010, 23, 025019.	1.8	27
35	Strong competition between the Î1 and ÎTc flux pinning mechanisms in MgB2 doped with carbon containing compounds. Journal of Applied Physics, 2010, 107, 113921.	1.1	7
36	Enhancement of the in-field<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MgB</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiCl</mml:mtext></mml:mrow><mml:. Physical Review B, 2010,	1.1	34

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37	Very strong intrinsic flux pinning and vortex avalanches in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mtext>Ba</mml:mtext><mml:mo>,</mml:mo> single crystals. Physical Review B, 2010, 82, .	1.1	137
38	The mechanical and the electrical properties of conducting polypyrrole fibers. Journal of Applied Physics, 2010, 107, .	1.1	34
39	THE NORMAL STATE HALL EFFECT IN NdBa_{2-x}La_xCu₃O_{7-Î´}: EVIDENCE FOR HOLE LOCALIZATION BY LA DOPING. International Journal of Modern Physics B, 2009, 23, 5779-5788.	1.0	1
40	Very High Critical Field and Superior J_câ€Field Performance in NdFeAsO_{0.82}F_{0.18} with T_c of 51 K. Advanced Materials, 2009, 21, 236-239.	11.1	68
41	Flux-pinning mechanism in silicone-oil-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MgB</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Evidence for charge-carrier mean free path fluctuation pinning. Physical Review B, 2008, 78, .	1.1	50
42	Disorder Driven Localization in Charge Neutrally Doped 123 Superconductors. AIP Conference Proceedings, 2006, , .	0.3	0
43	Neutron diffraction studies ofNd1âˆ’xPrxBa2Cu3O7âˆ’Î´:â€ƒEvidence for hole localization. Physical Review B, 2004, 69, .	1.1	8
44	Thermoelectric power of charge-neutralNd1âˆ’2xCaxMxBa2Cu3O7âˆ’Î´(M=Thand Pr): â€ƒEvidence for different types of localization. Physical Review B, 2002, 66, .	1.1	10