

Ihab M Obaidat

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98
papers

2,059
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20
h-index

43
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109
ext. papers

2,651
ext. citations

3.1
avg, IF

5.52
L-index

#	Paper	IF	Citations
98	Magnetic nanoparticles: surface effects and properties related to biomedicine applications. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21266-305	6.3	667
97	Magnetic Properties of Magnetic Nanoparticles for Efficient Hyperthermia. <i>Nanomaterials</i> , 2015 , 5, 63-89	9.4	292
96	Co9S8-Ni3S2/CuMn2O4-NiMn2O4 and MnFe2O4-ZnFe2O4/graphene as binder-free cathode and anode materials for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 381, 122640	14.7	84
95	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. <i>Journal of Energy Storage</i> , 2020 , 27, 101035	7.8	75
94	An intuitive review of supercapacitors with recent progress and novel device applications. <i>Journal of Energy Storage</i> , 2020 , 31, 101652	7.8	75
93	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. <i>Electronics (Switzerland)</i> , 2020 , 9, 1161	2.6	54
92	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 32, 101831	7.8	46
91	Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. <i>Magnetochemistry</i> , 2019 , 5, 67	3.1	46
90	Origins of bandgap bowing in compound-semiconductor common-cation ternary alloys. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 075802	1.8	35
89	Investigating Exchange Bias and Coercivity in Fe ₃ O ₄ /Fe ₂ O ₃ Core-Shell Nanoparticles of Fixed Core Diameter and Variable Shell Thicknesses. <i>Nanomaterials</i> , 2017 , 7,	5.4	32
88	Facile synthesis of hierarchical flower-like NiMoO ₄ -CoMoO ₄ nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 30, 101550	7.8	31
87	NO_2 Gas Sensing Properties of ZnO/Single-Wall Carbon Nanotube Composites. <i>IEEE Sensors Journal</i> , 2010 , 10, 1807-1812	4	30
86	Binder-free honeycomb-like FeMoO ₄ nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 27, 101055	7.8	29
85	Facile synthesis of novel and highly efficient CoNi ₂ S ₄ -Ni(OH) ₂ nanosheet arrays as pseudocapacitive-type electrode material for high-performance electrochemical supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 31, 101623	7.8	27
84	Ni _{1-x} Cr _x alloy for self controlled magnetic hyperthermia. <i>Crystal Research and Technology</i> , 2009 , 44, 386-390	1.3	24
83	Synthesis of Graphene Oxide-FeO Based Nanocomposites Using the Mechanochemical Method and in Vitro Magnetic Hyperthermia. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	23
82	Highly efficient copper-cobalt sulfide nano-reeds array with simplistic fabrication strategy for battery-type supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 32, 101988	7.8	23

81	Applications of YBCO-coated conductors: a focus on the chemical solution deposition method. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1836-1845		22
80	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 100925	7.8	21
79	Predicting a major role of surface spins in the magnetic properties of ferrite nanoparticles. <i>Crystal Research and Technology</i> , 2009 , 44, 489-494	1.3	20
78	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. <i>Materials Letters</i> , 2020 , 263, 127222	3.3	20
77	PEG coating reduces NMR relaxivity of Mn(0.5)Zn(0.5)Gd(0.02)Fe(1.98)O4 hyperthermia nanoparticles. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1192-8	5.6	17
76	Polycrystalline YBa ₂ Cu ₃ O _{7-δ} with Nano-sized Al ₂ O ₃ Inclusions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 1333-1340	1.5	16
75	Facile synthesis of nanoparticles anchored on honeycomb-like MnCo ₂ S ₄ nanostructures as a binder-free electroactive material for supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 27, 101159	7.8	16
74	Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials. <i>Electrochimica Acta</i> , 2020 , 364, 137318	6.7	16
73	Binder-free hierarchical core-shell-like CoMn ₂ O ₄ @MnS nanowire arrays on nickel foam as a battery-type electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 36, 102377	7.8	15
72	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO ₂ nanostructures as advanced electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 100914	7.8	13
71	One-pot synthesis of copper oxide/cobalt oxide core/shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. <i>Materials Today Energy</i> , 2019 , 14, 100358	7	13
70	The role of aggregation of ferrite nanoparticles on their magnetic properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3882-8	1.3	12
69	Absence of the bowing character in the common-anion II-VI ternary alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 340-344	5.7	12
68	Effect of erbium on the structural, morphological, and optical properties of SnO ₂ thin films deposited by spray pyrolysis. <i>Optik</i> , 2020 , 202, 163596	2.5	11
67	Enhancing the pinning strengths in polycrystalline MgB ₂ . <i>Crystal Research and Technology</i> , 2009 , 44, 2811-285	1.3	10
66	The effect of temperature and pinning density on the critical current of a superconductor with a square periodic array of pinning sites. <i>Superconductor Science and Technology</i> , 2005 , 18, 1380-1384	3.1	10
65	Morphology-dependent binder-free CuNiO ₂ electrode material with excellent electrochemical performances for supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 101037	7.8	9
64	Vortex bending in a tilted YBa ₂ Cu ₃ O _{7-δ} crystal. <i>Physical Review B</i> , 1997 , 56, R5774-R5780	3.3	9

63	Charge confinements in CdSe/ZnSe symmetric double quantum wells. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 165205	1.8	9
62	Role of interface quality in iron oxide core/shell nanoparticles on heating efficiency and transverse relaxivity. <i>Materials Express</i> , 2019 , 9, 328-336	1.3	8
61	NMR relaxation in systems with magnetic nanoparticles: a temperature study. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 648-55	5.6	8
60	Effective incorporation of nanocerium into polycrystalline MgB ₂ . <i>Journal of Applied Physics</i> , 2010 , 107, 063908	2.5	8
59	Facile Fabrication of MnCoO/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
58	Temperature Dependence of Saturation Magnetization and Coercivity in Mn _{0.5} Zn _{0.5} Gd _{0.02} Fe _{1.98} O ₄ Ferrite Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 92, 012012	0.4	7
57	Dynamic phases of low-temperature low-current driven vortex matter in superconductors. <i>Superconductor Science and Technology</i> , 2006 , 19, 368-372	3.1	7
56	Peculiar Magnetic Properties of MnZnGdFeO Nanoparticles. <i>Advanced Science Letters</i> , 2009 , 2, 60-64	0.1	7
55	CoCu ₂ O ₄ nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance. <i>Nano Structures Nano Objects</i> , 2020 , 24, 100618	5.6	7
54	Role of Magnetite Nanoparticles Size and Concentration on Hyperthermia under Various Field Frequencies and Strengths. <i>Molecules</i> , 2021 , 26,	4.8	7
53	Magnetic Nanoparticles as MRI Contrast Agents 2019 ,		6
52	Investigating Negative Magnetization and Blocking Temperature in Aggregates of Ferrite Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 92, 012011	0.4	6
51	Point and extended defects in superconductors. <i>Crystal Research and Technology</i> , 2008 , 43, 837-844	1.3	6
50	Crafting nanoflower-built MnCo ₂ S ₄ anchored to Ni foam as a prominent energy conversion and energy storage electrode for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 43, 103155	7.8	6
49	Mössbauer Studies of the Structure of Core/Shell Fe ₃ O ₄ /Fe ₂ O ₃ Nanoparticles. <i>Technical Physics Letters</i> , 2019 , 45, 426-429	0.7	5
48	The Composition and Magnetic Structure of Fe ₃ O ₄ /Fe ₂ O ₃ Core/Shell Nanocomposites at 300 and 80 K: Mössbauer Study (Part I). <i>Physics of the Solid State</i> , 2020 , 62, 1933-1943	0.8	5
47	Adsorption of methylene blue and rhodamine B on graphene oxide-Fe ₃ O ₄ nanocomposite: Molecular dynamics and Monte Carlo simulations. <i>Materials Express</i> , 2020 , 10, 314-324	1.3	5
46	Size-dependent magnetic anisotropy of PEG coated Fe ₃ O ₄ nanoparticles; comparing two magnetization methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 305, 012012	0.4	5

45	Effect of the dispersion of Eudragit S100 powder on the properties of cellulose acetate butyrate microspheres containing theophylline made by the emulsion-solvent evaporation method. <i>Journal of Microencapsulation</i> , 2007 , 24, 263-73	3.4	4
44	Finite Size and Surface Effects in Ferrite Nanoparticles. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2012 , 2, 325-331		4
43	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 975-982	2.1	4
42	Role of Shell Thickness and Applied Field on The Magnetic Anisotropy and Temperature Dependence of Coercivity in Fe ₃ O ₄ /Fe ₂ O ₃ Core/shell Nanoparticles. <i>Materials Express</i> , 2019 , 9, 123-132 ^{1,3}		3
41	Existence or absence of bandgap bowing in II-VI ternary alloys: Comparison between common-anion and common-cation cases. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012024	0.3	3
40	Correlation between the residual resistivity ratio and the power-law of the normal-state resistivity in MgB ₂ . <i>Crystal Research and Technology</i> , 2008 , 43, 83-86	1.3	3
39	Confinement behaviors of charge carriers in strained CdTe/ZnTe single-quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 41, 23-30	3	3
38	Irradiation dose effect on the critical current density in a Bi _{1.6} Pb _{0.4} Sr ₂ Ca ₂ Cu ₃ O ₁₀ polycrystal. <i>Superconductor Science and Technology</i> , 2006 , 19, 151-154	3.1	3
37	Tailoring Interfacial Exchange Anisotropy in Hard-Soft Core-Shell Ferrite Nanoparticles for Magnetic Hyperthermia Applications.. <i>Nanomaterials</i> , 2022 , 12,	5.4	3
36	Roles of Nano-Sized Pinning Centers and Vortex Density on Vortex Melting. <i>Science of Advanced Materials</i> , 2011 , 3, 95-101	2.3	3
35	The Composition and Magnetic Structure of Fe ₃ O ₄ /Fe ₂ O ₃ Core-Shell Nanocomposites under External Magnetic Field: Mössbauer Study (Part II). <i>Physics of the Solid State</i> , 2020 , 62, 2167-2172	0.8	3
34	Improved light-harvesting and suppressed charge recombination by introduction of a nanograin-like SnO interlayer for efficient CdS quantum dot sensitized solar cells.. <i>RSC Advances</i> , 2019 , 9, 38047-38054	3.7	3
33	Effect of iron doping on ESR and Raman spectra of SnO ₂ nanomaterials. <i>Materials Today: Proceedings</i> , 2020 , 28, 587-590	1.4	2
32	Magnetocaloric effect in (La _{0.7} Sr _{0.3} MnO ₃) _{1-x} (BaTiO ₃) _x solid solution spin-glass system. <i>Journal of Materials Science</i> , 2018 , 53, 2405-2412	4.3	2
31	ON THE ANOMALOUS STEADY-STATE DARK CONDUCTIVITY IN Na-Se FILMS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5171-5177	1.1	2
30	The influence of Pb-ion irradiation on melt-textured YBa ₂ Cu ₃ O _x crystals. <i>Crystal Research and Technology</i> , 2009 , 44, 206-210	1.3	2
29	Magneto-transport properties of polycrystalline YBa ₂ (Cu _{1-x} M _x) ₃ O _{7-δ} (M = B and Mn). <i>Crystal Research and Technology</i> , 2009 , 44, 930-936	1.3	2
28	Effect of Bond Ionicity on the Bandgap Bowing in Compound Semiconductor Alloys. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 1646-1653	0.3	2

27	Roles of pinning strength and density in vortex melting. <i>Superconductor Science and Technology</i> , 2008 , 21, 085004	3.1	2
26	DEPENDENCE OF THE PEAK EFFECT ON THE DENSITY OF PINNING SITES. <i>Modern Physics Letters B</i> , 2008 , 22, 3125-3134	1.6	2
25	INSIGHTS ON THE BOUND STATES IN THE STRAINED CdSe/ZnSe SINGLE-QUANTUM WELLS. <i>International Journal of Modern Physics B</i> , 2008 , 22, 2055-2069	1.1	2
24	Magnetotransport and structural properties of superconducting BPSCCO thick film on MgO substrate. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1851-1854	1.6	2
23	Magnetic field dependence of the relative critical current density in irradiated polycrystalline YBa ₂ Cu ₃ O ₇ . <i>Crystal Research and Technology</i> , 2008 , 43, 293-296	1.3	2
22	Molecular simulation of adsorption of methylene blue and rhodamine B on graphene and graphene oxide for water purification. <i>Materials Today: Proceedings</i> , 2020 , 28, 1078-1083	1.4	2
21	Specific Absorption Rate Dependency on the Co Distribution and Magnetic Properties in CoMnFeO Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
20	Influence of temperature on the magnetic properties of Mn ₃ O ₄ nanowires. <i>Current Chemistry Letters</i> , 2021 , 203-208	0.9	2
19	Hydrothermal synthesis, crystal and electronic structure of a new hydrated borate CsKB ₄ O ₅ (OH) ₄ ·2H ₂ O. <i>Materials Express</i> , 2020 , 10, 543-550	1.3	1
18	DEVELOPING A TOOL FOR A QUALITATIVE MEASUREMENT OF PINNING FORCES USING ROTATIONAL MAGNETIZATION EXPERIMENTS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 711-722	1.1	1
17	A PEAK IN THE BOSE GLASS LINE AT THE FIRST MATCHING FIELD OF NANOSTRUCTURES OF PINNING SITES. <i>International Journal of Modern Physics B</i> , 2009 , 23, 4655-4664	1.1	1
16	Enhancing the transport properties of polycrystalline MgB ₂ superconductors. <i>Journal of Physics: Conference Series</i> , 2009 , 153, 012010	0.3	1
15	TIGHT-BINDING METHOD FOR QUANTUM-CONFINEMENT ENERGY CALCULATIONS IN THE CdSe/ZnSe MULTIPLE QUANTUM WELLS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 1635-1645	1.1	1
14	Investigation of optical and magnetic properties of Mn-doped tetragonal ZrO ₂ nanocrystals. <i>Journal of Solid State Chemistry</i> , 2021 , 294, 121872	3.3	1
13	Field-dependent Morin Transition and Temperature-Dependent Spin-flop in Synthetic Hematite Nanoparticles. <i>Current Nanoscience</i> , 2021 , 16, 967-975	1.4	1
12	Molecular simulation of curcumin loading on graphene and graphene oxide for drug delivery applications. <i>Current Chemistry Letters</i> , 2021 , 161-168	0.9	1
11	Positive and negative exchange bias in maghemite nanoparticles. <i>Materials Today: Proceedings</i> , 2020 , 28, 611-614	1.4	0
10	Exchange bias, and coercivity investigations in hematite nanoparticles. <i>AIMS Materials Science</i> , 2021 , 9, 71-84	1.9	0

- 9 INVESTIGATING DYNAMIC VORTEX TRANSITIONS IN 2D SUPERCONDUCTORS. *Modern Physics Letters B*, **2009**, 23, 2399-2408 1.6
- 8 VORTEX CREEP PERPENDICULAR TO THE *c*-AXIS IN CRYSTALLINE AND GRAIN-ORIENTED YBCO SUPERCONDUCTOR. *International Journal of Modern Physics B*, **2009**, 23, 673-678 1.1
- 7 Quantum-confinement versus strain effects in the family of superlattices. *Microelectronics Journal*, **2009**, 40, 527-529 1.8
- 6 Transition behaviors from coupled-to-uncoupled symmetric versus asymmetric double quantum wells. *Microelectronics Journal*, **2009**, 40, 523-526 1.8
- 5 ELECTRONIC BAND STRUCTURES OF THE STRAINED (ZnSe)*m*(CdSe)*n*(001) SUPERLATTICES. *International Journal of Modern Physics B*, **2008**, 22, 4937-4950 1.1
- 4 Exploration of Magnetic Entropy Change Across the Martensite Transformation to Ni₄₄Co₂Mn₄₃In₁₁ Alloy. *Science of Advanced Materials*, **2018**, 10, 785-792 2.3
- 3 Magnetocaloric behavior of Mn rich Ni₄₆Cu₂Mn₄₃In₁₁alloy. *IOP Conference Series: Materials Science and Engineering*, **2018**, 305, 012011 0.4
- 2 Graphene Oxide/Iron Oxide (GrO/FeOx) Nanocomposites for Biomedicine: Synthesis and Study. *Physics of the Solid State*, **2021**, 63, 856-865 0.8
- 1 Magnetic Nanocomposites Graphene Oxide/Magnetite + Cobalt Ferrite (GrO/Fe₃O₄ + CoFe₂O₄) for Magnetic Hyperthermia. *Physics of the Solid State*, **2021**, 63, 998-1008 0.8