Ihab M Obaidat

List of Publications by Year in Descending Order

98 papers	2,059 citations	20 h-index	43 g-index
109 ext. papers	2,651 ext. citations	3.1 avg, IF	5.52 L-index

#	Paper	IF	Citations
98	Tailoring Interfacial Exchange Anisotropy in Hard-Soft Core-Shell Ferrite Nanoparticles for Magnetic Hyperthermia Applications.. *Nanomaterials*, **2022**, 12,	5.4	3
97	Exchange bias, and coercivity investigations in hematite nanoparticles. *AIMS Materials Science*, **2021** , 9, 71-84	1.9	0
96	Binder-free hierarchical core-shell-like CoMn2O4@MnS nanowire arrays on nickel foam as a battery-type electrode material for high-performance supercapacitors. *Journal of Energy Storage*, **2021**, 36, 102377	7.8	15
95	Facile Fabrication of MnCoO/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. *Nanomaterials*, **2021**, 11,	5.4	8
94	Specific Absorption Rate Dependency on the Co Distribution and Magnetic Properties in CoMnFeO Nanoparticles. *Nanomaterials*, **2021**, 11,	5.4	2
93	Investigation of optical and magnetic properties of Mn-doped tetragonal ZrO2 nanocrystals. *Journal of Solid State Chemistry*, **2021**, 294, 121872	3.3	1
92	Influence of temperature on the magnetic properties of Mn3O4 nanowires. *Current Chemistry Letters*, **2021**, 203-208	0.9	2
91	Field-dependent Morin Transition and Temperature-Dependent Spin-flop in Synthetic Hematite Nanoparticles. *Current Nanoscience*, **2021**, 16, 967-975	1.4	1
90	Role of Magnetite Nanoparticles Size and Concentration on Hyperthermia under Various Field Frequencies and Strengths. *Molecules*, **2021**, 26,	4.8	7
89	Crafting nanoflower-built MnCo2S4 anchored to Ni foam as a prominent energy conversion and energy storage electrode for high-performance supercapacitor applications. *Journal of Energy Storage*, **2021**, 43, 103155	7.8	6
88	Molecular simulation of curcumin loading on graphene and graphene oxide for drug delivery applications. *Current Chemistry Letters*, **2021**, 161-168	0.9	1
87	Graphene Oxide/Iron Oxide (GrO/FeOx) Nanocomposites for Biomedicine: Synthesis and Study. *Physics of the Solid State*, **2021**, 63, 856-865	0.8	
86	Magnetic Nanocomposites Graphene Oxide/Magnetite + Cobalt Ferrite (GrO/Fe3O4 + CoFe2O4) for Magnetic Hyperthermia. *Physics of the Solid State*, **2021**, 63, 998-1008	0.8	
85	Hydrothermal synthesis, crystal and electronic structure of a new hydrated borate CsKB4O5(OH)4·2H2O. *Materials Express*, **2020**, 10, 543-550	1.3	1
84	Facile synthesis of hierarchical flower-like NiMoO4-CoMoO4 nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. *Journal of Energy Storage*, **2020**, 30, 101550	7.8	31
83	Effect of iron doping on ESR and Raman spectra of SnO2 nanomaterials. *Materials Today: Proceedings*, **2020**, 28, 587-590	1.4	2
82	Positive and negative exchange bias in maghemite nanoparticles. *Materials Today: Proceedings*, **2020**, 28, 611-614	1.4	0

81	The Composition and Magnetic Structure of Fe3O4/α-Fe2O3 Core–Shell Nanocomposites at 300 and 80 K: Mössbauer Study (Part I). *Physics of the Solid State*, **2020**, 62, 1933-1943	0.8	5
80	Facile synthesis of novel and highly efficient CoNi2S4-Ni(OH)2 nanosheet arrays as pseudocapacitive-type electrode material for high-performance electrochemical supercapacitors. *Journal of Energy Storage*, **2020**, 31, 101623	7.8	27
79	Molecular simulation of adsorption of methylene blue and rhodamine B on graphene and graphene oxide for water purification. *Materials Today: Proceedings*, **2020**, 28, 1078-1083	1.4	2
78	Effect of erbium on the structural, morphological, and optical properties of SnO2 thin films deposited by spray pyrolysis. *Optik*, **2020**, 202, 163596	2.5	11
77	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. *Journal of Energy Storage*, **2020**, 27, 101035	7.8	75
76	Facile synthesis of nanoparticles anchored on honeycomb-like MnCo2S4 nanostructures as a binder-free electroactive material for supercapacitors. *Journal of Energy Storage*, **2020**, 27, 101159	7.8	16
75	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. *Materials Letters*, **2020**, 263, 127222	3.3	20
74	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 975-982	2.1	4
73	Binder-free honeycomb-like FeMoO4 nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. *Journal of Energy Storage* , **2020**, 27, 101055	7.8	29
72	Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials. *Electrochimica Acta*, **2020**, 364, 137318	6.7	16
71	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. *Journal of Energy Storage*, **2020**, 32, 101831	7.8	46
70	Adsorption of methylene blue and rhodamine B on graphene oxide-Fe3O4 nanocomposite: Molecular dynamics and Monte Carlo simulations. *Materials Express*, **2020**, 10, 314-324	1.3	5
69	An intuitive review of supercapacitors with recent progress and novel device applications. *Journal of Energy Storage*, **2020**, 31, 101652	7.8	75
68	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. *Electronics (Switzerland)*, **2020**, 9, 1161	2.6	54
67	The Composition and Magnetic Structure of Fe3O4/α-Fe2O3 Core-Shell Nanocomposites under External Magnetic Field: Mössbauer Study (Part II). *Physics of the Solid State*, **2020**, 62, 2167-2172	0.8	3
66	CoCu2O4 nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance. *Nano Structures Nano Objects*, **2020**, 24, 100618	5.6	7
65	Highly efficient copper-cobalt sulfide nano-reeds array with simplistic fabrication strategy for battery-type supercapacitors. *Journal of Energy Storage*, **2020**, 32, 101988	7.8	23
64	Co9S8-Ni3S2/CuMn2O4-NiMn2O4 and MnFe2O4-ZnFe2O4/graphene as binder-free cathode and anode materials for high energy density supercapacitors. *Chemical Engineering Journal*, **2020**, 381, 122640	14.7	84

63	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. *Journal of Energy Storage*, **2019**, 26, 100925	7.8	21
62	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO2 nanostructures as advanced electrode material for high-performance supercapacitors. *Journal of Energy Storage*, **2019**, 26, 100914	7.8	13
61	Mössbauer Studies of the Structure of Core/Shell Fe3O4/γ-Fe2O3 Nanoparticles. *Technical Physics Letters*, **2019**, 45, 426-429	0.7	5
60	Role of Shell Thickness and Applied Field on The Magnetic Anisotropy and Temperature Dependence of Coercivity in Fe3O4 /γ-Fe2O3 Core/shell Nanoparticles. *Materials Express*, **2019**, 9, 123-132	1.3	3
59	Magnetic Nanoparticles as MRI Contrast Agents **2019**,		6
58	Synthesis of Graphene Oxide-FeO Based Nanocomposites Using the Mechanochemical Method and in Vitro Magnetic Hyperthermia. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	23
57	Role of interface quality in iron oxide core/shell nanoparticles on heating efficiency and transverse relaxivity. *Materials Express*, **2019**, 9, 328-336	1.3	8
56	Morphology-dependent binder-free CuNiO2electrode material with excellent electrochemical performances for supercapacitors. *Journal of Energy Storage*, **2019**, 26, 101037	7.8	9
55	One-pot synthesis of copper oxide□cobalt oxide core□shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. *Materials Today Energy*, **2019**, 14, 100358	7	13
54	Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. *Magnetochemistry*, **2019**, 5, 67	3.1	46
53	Improved light-harvesting and suppressed charge recombination by introduction of a nanograss-like SnO interlayer for efficient CdS quantum dot sensitized solar cells.. *RSC Advances*, **2019**, 9, 38047-38054	3.7	3
52	Magnetocaloric effect in (La0.7Sr0.3MnO3)1−x (BaTiO3) x solid solution spin-glass system. *Journal of Materials Science*, **2018**, 53, 2405-2412	4.3	2
51	Exploration of Magnetic Entropy Change Across the Martensite Transformation to Ni44Co2Mn43In11 Alloy. *Science of Advanced Materials*, **2018**, 10, 785-792	2.3	
50	Size-dependent magnetic anisotropy of PEG coated Fe3O4nanoparticles; comparing two magnetization methods. *IOP Conference Series: Materials Science and Engineering*, **2018**, 305, 012012	0.4	5
49	Magnetocaloric behavior of Mn rich Ni46Cu2Mn43In11alloy. *IOP Conference Series: Materials Science and Engineering*, **2018**, 305, 012011	0.4	
48	Investigating Exchange Bias and Coercivity in Fe□O□-Fe□O□ Core-Shell Nanoparticles of Fixed Core Diameter and Variable Shell Thicknesses. *Nanomaterials*, **2017**, 7,	5.4	32
47	Temperature Dependence of Saturation Magnetization and Coercivity in Mn0.5Zn0.5Gd0.02Fe1.98O4Ferrite Nanoparticles. *IOP Conference Series: Materials Science and Engineering*, **2015**, 92, 012012	0.4	7
46	Investigating Negative Magnetization and Blocking Temperature in Aggregates of Ferrite Nanoparticles. *IOP Conference Series: Materials Science and Engineering*, **2015**, 92, 012011	0.4	6

45	Magnetic Properties of Magnetic Nanoparticles for Efficient Hyperthermia. *Nanomaterials*, **2015**, 5, 63-89	3.4	292
44	NMR relaxation in systems with magnetic nanoparticles: a temperature study. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 648-55	5.6	8
43	Magnetic nanoparticles: surface effects and properties related to biomedicine applications. *International Journal of Molecular Sciences*, **2013**, 14, 21266-305	6.3	667
42	Finite Size and Surface Effects in Ferrite Nanoparticles. *Journal of Nanoengineering and Nanomanufacturing*, **2012**, 2, 325-331		4
41	PEG coating reduces NMR relaxivity of Mn(0.5)Zn(0.5)Gd(0.02)Fe(1.98)O4 hyperthermia nanoparticles. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1192-8	5.6	17
40	The role of aggregation of ferrite nanoparticles on their magnetic properties. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 3882-8	1.3	12
39	Roles of Nano-Sized Pinning Centers and Vortex Density on Vortex Melting. *Science of Advanced Materials*, **2011**, 3, 95-101	2.3	3
38	Effective incorporation of nanoceria into polycrystalline MgB2. *Journal of Applied Physics*, **2010**, 107, 063908	2.5	8
37	${hbox{NO}}_{2}$ Gas Sensing Properties of ZnO/Single-Wall Carbon Nanotube Composites. *IEEE Sensors Journal*, **2010**, 10, 1807-1812	4	30
36	Applications of YBCO-coated conductors: a focus on the chemical solution deposition method. *Journal of Materials Chemistry*, **2010**, 20, 1836-1845		22
35	Existence or absence of bandgap bowing in II-VI ternary alloys: Comparison between common-anion and common-cation cases. *Journal of Physics: Conference Series*, **2010**, 209, 012024	0.3	3
34	Polycrystalline YBa2Cu3O7□with Nano-sized Al2O3 Inclusions. *Journal of Superconductivity and Novel Magnetism*, **2010**, 23, 1333-1340	1.5	16
33	DEVELOPING A TOOL FOR A QUALITATIVE MEASUREMENT OF PINNING FORCES USING ROTATIONAL MAGNETIZATION EXPERIMENTS. *International Journal of Modern Physics B*, **2009**, 23, 711-722	1.1	1
32	ON THE ANOMALOUS STEADY-STATE DARK CONDUCTIVITY INa-SeFILMS. *International Journal of Modern Physics B*, **2009**, 23, 5171-5177	1.1	2
31	INVESTIGATING DYNAMIC VORTEX TRANSITIONS IN 2D SUPERCONDUCTORS. *Modern Physics Letters B*, **2009**, 23, 2399-2408	1.6	
30	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	
29	A PEAK IN THE BOSE GLASS LINE AT THE FIRST MATCHING FIELD OF NANOSTRUCTURES OF PINNING SITES. *International Journal of Modern Physics B*, **2009**, 23, 4655-4664	1.1	1
28	The influence of Pb-ion irradiation on melt-textured YBa2Cu3Ox crystals. *Crystal Research and Technology*, **2009**, 44, 206-210	1.3	2

27	Enhancing the pinning strengths in polycrystalline MgB2. *Crystal Research and Technology*, **2009**, 44, 281-285	1.3	10
26	Ni1-x Crx alloy for self controlled magnetic hyperthermia. *Crystal Research and Technology*, **2009**, 44, 386-390	1.3	24
25	Predicting a major role of surface spins in the magnetic properties of ferrite nanoparticles. *Crystal Research and Technology*, **2009**, 44, 489-494	1.3	20
24	Magneto-transport properties of polycrystalline YBa2(Cu1-xMx)3O7-□(M = B and Mn). *Crystal Research and Technology*, **2009**, 44, 930-936	1.3	2
23	Quantum-confinement versus strain effects in the family of superlattices. *Microelectronics Journal*, **2009**, 40, 527-529	1.8	
22	Transition behaviors from coupled-to-uncoupled symmetric versus asymmetric double quantum wells. *Microelectronics Journal*, **2009**, 40, 523-526	1.8	
21	Effect of Bond Ionicity on the Bandgap Bowing in Compound Semiconductor Alloys. *Journal of Computational and Theoretical Nanoscience*, **2009**, 6, 1646-1653	0.3	2
20	Absence of the bowing character in the common-anion III□VI ternary alloys. *Journal of Alloys and Compounds*, **2009**, 481, 340-344	5.7	12
19	Origins of bandgap bowing in compound-semiconductor common-cation ternary alloys. *Journal of Physics Condensed Matter*, **2009**, 21, 075802	1.8	35
18	Enhancing the transport properties of polycrystalline MgB2superconductors. *Journal of Physics: Conference Series*, **2009**, 153, 012010	0.3	1
17	Peculiar Magnetic Properties of MnZnGdFeO Nanoparticles. *Advanced Science Letters*, **2009**, 2, 60-64	0.1	7
16	TIGHT-BINDING METHOD FOR QUANTUM-CONFINEMENT ENERGY CALCULATIONS IN THE CdSe/ZnSe MULTIPLE QUANTUM WELLS. *International Journal of Modern Physics C*, **2008**, 19, 1635-1645	1.1	1
15	Roles of pinning strength and density in vortex melting. *Superconductor Science and Technology*, **2008**, 21, 085004	3.1	2
14	DEPENDENCE OF THE PEAK EFFECT ON THE DENSITY OF PINNING SITES. *Modern Physics Letters B*, **2008**, 22, 3125-3134	1.6	2
13	INSIGHTS ON THE BOUND STATES IN THE STRAINED CdSe□ZnSe SINGLE-QUANTUM WELLS. *International Journal of Modern Physics B*, **2008**, 22, 2055-2069	1.1	2
12	ELECTRONIC BAND STRUCTURES OF THE STRAINED (ZnSe)m(CdSe)n(001) SUPERLATTICES. *International Journal of Modern Physics B*, **2008**, 22, 4937-4950	1.1	
11	Charge confinements in CdSe□ZnSe symmetric double quantum wells. *Journal of Physics Condensed Matter*, **2008**, 20, 165205	1.8	9
10	Magnetotransport and structural properties of superconducting BPSCCO thick film on MgO substrate. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 1851-1854	1.6	2

9	Correlation between the residual resistivity ratio and the power-law of the normal-state resistivity in MgB2. *Crystal Research and Technology*, **2008**, 43, 83-86	1.3	3
8	Magnetic field dependence of the relative critical current density in irradiated polycrystalline YBa2Cu3O7. *Crystal Research and Technology*, **2008**, 43, 293-296	1.3	2
7	Point and extended defects in superconductors. *Crystal Research and Technology*, **2008**, 43, 837-844	1.3	6
6	Confinement behaviors of charge carriers in strained CdTe/ZnTe single-quantum wells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 41, 23-30	3	3
5	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. *Journal of Microencapsulation*, **2007**, 24, 263-73	3.4	4
4	Dynamic phases of low-temperature low-current driven vortex matter in superconductors. *Superconductor Science and Technology*, **2006**, 19, 368-372	3.1	7
3	irradiation dose effect on the critical current density in a Bi1.6Pb0.4Sr2Ca2Cu3O10polycrystal. *Superconductor Science and Technology*, **2006**, 19, 151-154	3.1	3
2	The effect of temperature and pinning density on the critical current of a superconductor with a square periodic array of pinning sites. *Superconductor Science and Technology*, **2005**, 18, 1380-1384	3.1	10
1	Vortex bending in a tilted YBa2Cu3O7 crystal. *Physical Review B*, **1997**, 56, R5774-R5780	3.3	9