Ashis Bhattacharjee

List of Publications by Year
in descending order

99 papers	1,707 citations	331670 21 h-index	330143 37 g-index
100 all docs	100 docs citations	100 times ranked	1841 citing authors

#	Article	IF	Citations
1	Insights into the thermal decomposition of organometallic compound ferrocene carboxaldehyde as precursor for hematite nanoparticles synthesis. Zeitschrift Fur Physikalische Chemie, 2022, 236, 1137-1161.	2.8	4
2	CdS nanoparticles (<â€‰5Ânm): green synthesized using Termitomyces heimii mushroomâ€“structural, optical and morphological studies. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
3	Structural, optical and dielectric studies of wurtzite-type CdS quantum dots green synthesised using Ocimum sanctum (Tulsi) leaf extract. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2021, 12, 035010.	1.5	0
4	Structural, magnetic and MÃ¶ssbauer spectroscopic studies of the [Fe(3-bpp)‹sub›2‹/sub›](CF‹sub›3‹/sub›COO)‹sub›2‹/sub› complex: role of crystal packing leading to an incomplete Fe(‹scp›ii‹/scp›) high spin â‡‹ low spin transition. CrystEngComm, 2021, 23, 2854-2861.	2.6	3
5	Effect of reaction protocol on the nature and size of iron oxide nano particles obtained through solventless synthesis using iron(II)acetate: structural, magnetic and morphological studies. SN Applied Sciences, 2020, 2, 1.	2.9	5
6	Study on the Melting Mechanism of Maleic Anhydride. Current Physical Chemistry, 2020, 10, 65-78.	0.2	0
7	Solventless synthesis and characterization of Î±-Fe, Î³-Fe, magnetite and hematite using iron(III)citrate. Solid State Sciences, 2019, 95, 105932.	3.2	7
8	Effect of Co-precursor Maliec Anhydride on the Thermal Decomposition of Acetyl Ferrocene: A Reaction Kinetic Analysis. Current Physical Chemistry, 2019, 9, 22-35.	0.2	3
9	Kinetics Study of the Solid State Reaction of Iron(III)Citrate Leading to Hematite Nanoparticles. Current Physical Chemistry, 2019, 8, 290-302.	0.2	3
10	Kinetic Analysis of Nonisothermal Decomposition of Acetyl Ferrocene. International Journal of Chemical Kinetics, 2018, 50, 259-272.	1.6	7
11	Electrical conductivity behavior of Gum Arabic biopolymer-Fe3O4 nanocomposites. Journal of Physics and Chemistry of Solids, 2018, 112, 73-79.	4.0	17
12	A study on the electrical conduction in solid mixtures of PMMA and a molecular material. Chinese Journal of Physics, 2018, 56, 1467-1475.	3.9	0
13	Thermal Decomposition Reaction of Ferrocene in the Presence of Oxalic Acid. International Journal of Chemical Kinetics, 2017, 49, 319-332.	1.6	10
14	Solventless synthesis, morphology, structure and magnetic properties of iron oxide nanoparticles. Solid State Sciences, 2017, 74, 62-69.	3.2	11
15	Pressure Effect Studies on the High Spin â‡† Low Spin Transition Behavior Observed in [Fe(II)(bpp)2](NCS)2.2H2O. Current Smart Materials, 2017, 2, .	0.5	0
16	Solid-State Thermal Reaction of a Molecular Material and Solventless Synthesis of Iron Oxide. International Journal of Thermophysics, 2016, 37, 1.	2.1	1
17	Characterization of dielectric properties of developed CdSâ€gum arabic composites in low frequency region. Polymer Composites, 2016, 37, 108-114.	4.6	6
18	Preparation, characterization and electrical study of gum arabic/ZnO nanocomposites. Bulletin of Materials Science, 2015, 38, 1609-1616.	1.7	22

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19	Thermal Decomposition Study of Ferrocene [(C₅H₅)₂Fe]. Journal of Experimental Physics, 2014, 2014, 1-8.	1.1	30
20	Calorimetric Study of Phase Transitions in 2D Bimetallic Molecular Magnetic Materials - A[M(II)M(III)(C₂O₄)₃][#]. Current Inorganic Chemistry, 2014, 4, 19-30.	0.2	2
21	Magnetic particulate matters in the ashes of few commonly used Indian cigarettes. Environmental Monitoring and Assessment, 2014, 186, 7399-7411.	2.7	0
22	Solventless synthesis of hematite nanoparticles using ferrocene. Journal of Materials Science, 2013, 48, 2961-2968.	3.7	39
23	Pressure Effect Studies on the Spin-Transition Behavior of a Dinuclear Iron(II) Compound. European Journal of Inorganic Chemistry, 2013, 2013, 843-849.	2.0	15
24	Comparative study of the microstructural and magnetic properties of fly ashes obtained from different thermal power plants in West Bengal, India. Environmental Monitoring and Assessment, 2013, 185, 8673-8683.	2.7	6
25	Thermal decomposition of a molecular material {N(n-C4H9)4[FeIIFeIII(C2O4)3]}âˆž leading to ferrite: A reaction kinetics study. Journal of the Serbian Chemical Society, 2013, 78, 523-536.	0.8	4
26	Thermal degradation of a molecular magnetic material: {N(n-C4H9)4[FeIIFeIII(C2O4)3]}âˆž. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1423-1427.	3.6	6
27	Thermal Decomposition of Molecular Materials $${{{m N}(n{-}{m C}_{4}{m H}_{9})_{4}[{m M}^{m II} {m Fe}^{m III}({m C}_{2} {m O}_{4})_{3}]}_{infty},,{m M}^{m II} = {m Zn},, {m Co},, {m Fe}}$$. International Journal of Thermophysics, 2012, 33, 2351-2365.	2.1	8
28	Entrapment of [Ru(bpy)3]2+ in the anionic metalâ€“organic framework: Novel photoluminescence behavior exhibiting dual emission at room temperature. Dalton Transactions, 2011, 40, 6952.	3.3	42
29	Microstructural and magnetic characterization of fly ash from Kolaghat Thermal Power Plant in West Bengal, India. Journal of Magnetism and Magnetic Materials, 2011, 323, 3007-3012.	2.3	17
30	Electrical and magnetic characterization of a molecular material {[Ru(bpy)3][Fe(dca)3]2}n. Physica B: Condensed Matter, 2011, 406, 4625-4629.	2.7	2
31	A preliminary study on the nature of particulate matters in vehicle fuel wastes. Environmental Monitoring and Assessment, 2011, 176, 473-481.	2.7	9
32	Spin Crossover Phenomenon in Nanocrystals and Nanoparticles of [Fe(3-Fpy)₂M(CN)₄] (M^{II} = Ni, Pd, Pt) Two-Dimensional Coordination Polymers. Chemistry of Materials, 2010, 22, 4271-4281.	6.7	131
33	A cyano-bridged bimetallic ferrimagnet: Synthesis, X-ray structure and magnetic study. Polyhedron, 2010, 29, 2762-2768.	2.2	10
34	Hydrothermal synthesis of dimeric lanthanide compounds: X-ray structure, magnetic study and heterogeneous catalytic epoxidation of olefins. Polyhedron, 2010, 29, 3183-3191.	2.2	43
35	Microstructural and magnetic characterization of dusts from a stone crushing industry in Birbhum, India. Journal of Magnetism and Magnetic Materials, 2010, 322, 3724-3727.	2.3	6
36	Î³-Fe2O3 nanoparticle in NaY-zeolite matrix: Preparation, characterization, and heterogeneous catalytic epoxidation of olefins. Inorganica Chimica Acta, 2010, 363, 696-704.	2.4	43

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37	Electrical conduction property of molecular magnetic materialâ€"{N(n-C4H9)4[Fe(II)Fe(III)(C2O4)3]}âˆž: Before and after thermal degradation. Physica B: Condensed Matter, 2010, 405, 1546-1550.	2.7	7
38	Photo-Induced Spin State Switching In [Fe(bpp)[sub 2]](NCS)[sub 2]â‹…2H[sub 2]O. AIP Conference Proceedings, 2010, , .	0.4	1
39	Rod-like ferrites obtained through thermal degradation of a molecular ferrimagnet. Journal of Alloys and Compounds, 2010, 503, 449-453.	5.5	13
40	MÃ¶ssbauer spectroscopy in molecular magnetism. , 2009, , 3-19.		0
41	Pressure-induced hysteresis in the high spin leftrightarrow low spin transition in bis(2,4-bis(pyridin-2-yl)thiazole) iron(II) tetrafluoroborate. Journal of Physics Condensed Matter, 2009, 21, 026011.	1.8	8
42	MÃ¶ssbauer spectroscopy in molecular magnetism. Hyperfine Interactions, 2009, 189, 3-19.	0.5	3
43	Molecular materialâ€"{N(n-C4H9)4[Ni(II)0.5 Fe(II)0.5 Fe(III)(C2O4)3]}âˆž: Magnetic, MÃ¶ssbauer and electrical conductivity studies. Physica B: Condensed Matter, 2009, 404, 3448-3451.	2.7	4
44	Structural and magnetic diversity in metal-dicyanamido polymer moieties: Paramagnetic and antiferromagnetic 1D chain compound and weakly ferromagnetic 2D motif. Inorganica Chimica Acta, 2009, 362, 4663-4670.	2.4	15
45	Uncompensated magnetization in the layered molecular antiferromagnet {N(n-C5H11)4[MnIIFeIII(ox)3]}âˆž. Polyhedron, 2009, 28, 2899-2904.	2.2	2
46	Spinâ€Crossover Nanocrystals with Magnetic, Optical, and Structural Bistability Near Room Temperature. Angewandte Chemie - International Edition, 2008, 47, 6433-6437.	13.8	281
47	Synchrotron powder-diffraction study of the spin transition compound [Fe(bpp)2](NCS)2Â·2H2O and soft X-ray-induced structural phase conversion. Journal of Molecular Structure, 2008, 890, 178-183.	3.6	9
48	MÃ¶ssbauer spectroscopic study of the thermal spin crossover in [Fe(II)(isoxazole)6](ClO4)2. Journal of Physics and Chemistry of Solids, 2008, 69, 2713-2718.	4.0	6
49	Synthesis, X-ray crystal structure and magnetic study of a dicyanamido bridged 1D chain nickel(II) complex. Inorganica Chimica Acta, 2008, 361, 183-187.	2.4	12
50	Oxo-Vanadium(IV) Dihydrogen Phosphate: Preparation, Magnetic Study, and Heterogeneous Catalytic Epoxidation. Langmuir, 2008, 24, 5970-5975.	3.5	39
51	Effect of pressure and light on the spin transition behavior of the dinuclear iron(II) compound [FeII2(PMAT)2](BF4)4â‹…DMF. Applied Physics Letters, 2008, 92, .	3.3	35
52	Synthesis, X-ray crystal structure and magnetic study of a Î¼ 1,5-dca bridged ferromagnetic dimeric copper(II) complex. Journal of Coordination Chemistry, 2008, 61, 3486-3492.	2.2	8
53	MÃ¶ssbauer spectroscopic study of low-temperature spin structure and magnetic interactions in. Journal of Physics Condensed Matter, 2007, 19, 356201.	1.8	4
54	Study of thermal spin crossover in [Fe(II)(isoxazole)₆](BF₄)₂with MÃ¶ssbauer spectroscopy. Journal of Physics Condensed Matter, 2007, 19, 406202.	1.8	9

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55	Maghemite polymer nanocomposites with modulated magnetic properties. Acta Materialia, 2007, 55, 2201-2209.	7.9	51
56	Comment on â€˜multiple magnetic-pole reversals in the molecular-based mixed-valency ferrimagnet {[N(nC4H9)4][FeFe(C2O4)3]}âˆžâ€™ by G. Tang et al., Physica B 392 (2007) 337â€“340. Physica B: Condensed Matter, 2007, 399, 77-78.	2.7	1
57	Synthesis, X-ray crystal structure and magnetic study of a novel Î¼2-1,1-azido bridged dimeric copper(II) complex. Polyhedron, 2007, 26, 1658-1662.	2.2	23
58	Phase transitions in mixed-valence potassium manganese hexacyanoferrate Prussian blue analogue: Heat capacity calorimetric study. Journal of Magnetism and Magnetic Materials, 2007, 312, 435-442.	2.3	8
59	X-ray powder diffraction and LIESST-effect of the spin transition material [Fe(bpp)2](NCS)2Â·2H2O. Chemical Physics Letters, 2006, 431, 72-77.	2.6	15
60	Metal-to-metal electron transfer and magnetic interactions in a mixed-valence Prussian Blue analogue. Journal of Magnetism and Magnetic Materials, 2006, 302, 173-180.	2.3	14
61	Calorimetric investigation of the magnetic transition in quasi-one-dimensional molecule-based ferrimagnets: [Mn(OC14H29)4TPP][TCNE]Â·MeOH and [MnF4TPP][TCNE]Â·0.5MeOH. Journal of Physics and Chemistry of Solids, 2005, 66, 147-154.	4.0	6
62	Magnetic properties of quasi-2D antiferromagnet {N(n-C5H11)4[MnIIFeIII(ox)3]}âˆž below NÃ©el temperature: revisited. Journal of Magnetism and Magnetic Materials, 2004, 268, 380-387.	2.3	11
63	Calorimetric investigation of phase transitions in the layered antiferromagnetic molecule-based material {N(n-C5H11)4[MnIIFeIII(ox)3]}âˆž(ox=oxalato). Journal of Magnetism and Magnetic Materials, 2004, 280, 1-9.	2.3	15
64	Cause for Unusually Large Thermal Hysteresis of Spin Crossover in [Fe(2-pic)3]Cl2Â·H2O. Bulletin of the Chemical Society of Japan, 2004, 77, 921-932.	3.2	35
65	Anomalous Spin Transition Observed in Bis(2,6-bis(pyrazol-3-yl)pyridine)iron(II) Thiocyanate Dihydrate. Advanced Functional Materials, 2003, 13, 877-882.	14.9	35
66	Contradicting Reports on Magnetic Properties of Layered Molecule-Based Material N(n-C3H7)4[FeIIFeIII(C2O4)3]. Chemistry of Materials, 2003, 15, 2287-2287.	6.7	2
67	MÂssbauer spectroscopy under a magnetic field to explore the low-temperature spin structure of the layered ferrimagnetic materialâ€”ÂN(n-C4H9)4[FeIIFeIII(C2O4)3]ÂÂ. Journal of Physics Condensed Matter, 2003, 15, 5103-5112.	1.8	14
68	AC Magnetic Susceptibility of the Assembled-Metal Complex {NBu4[FeIIFeIII(ox)3]}âˆž(Bu=n-C4H9,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	10
69	Heat capacity and magnetic phase transitions of rare-earth orthoferrite HoFeO3. Journal of Physics and Chemistry of Solids, 2002, 63, 569-574.	4.0	28
70	Heat capacity calorimetry of a molecule-based magnetic material. Journal of Alloys and Compounds, 2001, 326, 251-254.	5.5	6
71	Magnetic-Field-Dependent Heat Capacity of the Single-Molecule Magnet [Mn12O12(O2CEt)16(H2O)3]#. Inorganic Chemistry, 2001, 40, 6632-6636.	4.0	23
72	Heat capacity calorimetry of two Mn4 large-spin clusters: [Mn4(hmp)6R2](ClO4)2 [Hhmp=2-hydroxymethylpyridine, R=OAcâˆ’ or Clâˆ’]. Polyhedron, 2001, 20, 1607-1613.	2.2	17

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73	High-precision detection of the heat-capacity anomaly due to spin reorientation in TmFeO3 and HoFeO3. Solid State Communications, 2001, 120, 129-132.	1.9	16
74	Study of the magnetic phase transition in a cyanide-bridged molecule-based material: [Mn(cyclam)][Fe(CN)6]Â·3H2O (cyclam=1,4,8,11-tetraazacyclotetradecane). Physica B: Condensed Matter, 2001, 305, 56-64.	2.7	22
75	Calorimetric observation of the effect of non-magnetic organic cation (A) on the magnetic properties of A[FeIIFeIII(ox)3], A=N(n-C3H7)4+ or N(n-C4H9)4+. Solid State Communications, 2000, 115, 639-643.	1.9	7
76	Magnetic field dependent heat capacity of the molecule-based magnetic material NBu4[FeIIFeIII(ox)3] (Bu=n-C4H9+, ox=oxalate). Solid State Communications, 2000, 113, 543-548.	1.9	10
77	Heat Capacities and Phase Transitions of the Molecule-Based Mixed-Valence Complex NBu4[FeIIFeIII(ox)3] and the Mixed-Metal Complex NBu4[ZnIIFeIII(ox)3]*. Journal of the Physical Society of Japan, 2000, 69, 479-488.	1.6	29
78	Study of the Negative Magnetization Phenomenon in NBu4[FeIIFeIII(ox)3]. Journal of the Physical Society of Japan, 1999, 68, 1679-1683.	1.6	38
79	Effect of non-magnetic organic cation (A) on the magnetic properties of ANiII[FeIII(ox)3], and N(n-C3H7)4+. Solid State Communications, 1999, 111, 601-606.	1.9	3
80	Title is missing!. Journal of Materials Science Letters, 1999, 18, 885-887.	0.5	3
81	Magnetic properties of oxalate ligand based molecular materials: NBu4M(II)[Fe(III)(ox)3], Bu4=n-(C4H9)4, M=Co, Cr. Journal of Magnetism and Magnetic Materials, 1999, 195, 336-344.	2.3	14
82	Magnetic Properties of Mixed-Metal Compounds: NBu4CoII0.5FeII0.5[MIII(ox)3], Bu4 = n-(C4H9)4, M = Cr, Fe. Physica Status Solidi A, 1999, 175, 683-691.	1.7	0
83	Dark and photoconductive properties of hydroxymethylferrocene. Synthetic Metals, 1998, 97, 63-68.	3.9	6
84	New Structural Aspects of Î±-Pyrrolidinonate- and Î±-Pyridonate-Bridged, Homo- and Mixed-Valence, Di- and Tetranuclearcis-Diammineplatinum Complexes:Â Eight New Crystal Structures, Stoichiometric 1:1 Mixture of Pt(2.25+)4and Pt(2.5+)4, New Quasi-One-Dimensional Halide-Bridged [Pt(2.5+)4-ClÂ·Â·Â·]âˆžSystem, and Consideration of Solution Properties. Journal of the American Chemical Society, 1998, 120, 8366-8379.	13.7	94
85	Magnetic Susceptibility of Mixed-Metal Compounds: NBu4M(II)[Fe(III)0.5Cr(III)0.5(ox)3], Bu = Butyl, M = Mn, Fe. Physica Status Solidi A, 1997, 159, 503-508.	1.7	4
86	Magnetic susceptibility of some mixed-metal compounds NBu4Fe(II)[Fe(III)xCr(III)1 âˆ’ x(ox)3]. Journal of Magnetism and Magnetic Materials, 1996, 153, 235-240.	2.3	32
87	Effect of organic cation (A) on the magnetic susceptibility of AFe(ii)[Fe(iii)(ox)3], A = N(C3H7)4, As(C6H5)4, N(C4H9)4. Journal of Materials Science Letters, 1996, 15, 102-104.	0.5	14
88	Magnetism of a New oxalate-BRIDGED Metal Complex {NPr4[MnCr(ox)3]}x. Molecular Crystals and Liquid Crystals, 1996, 286, 141-146.	0.3	3
89	Magnetic Susceptibility of Some Mixed-Metal Compounds: $f NBu_{4}Zn(II)_{inmbi x}Fe(II)_{1-{inmbi x}}[Fe(III)(ox)_{3}]$. Japanese Journal of Applied Physics, 1995, 34, 1521-1525.	1.5	21
90	Effects of mechanical pressure on charge transport in some ferrocene derivatives in the presence of adsorbed vapours. Journal of Materials Science, 1994, 29, 4875-4882.	3.7	2

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91	Organometallic Photoconductors: Dark and Photoconductive Studies on Ferrocene and Some of Its Derivatives. Bulletin of the Chemical Society of Japan, 1994, 67, 607-611.	3.2	11
92	Electrical Conductivity of Benzoylferrocene in Presence of Adsorbed Vapors. Japanese Journal of Applied Physics, 1993, 32, 1568-1574.	1.5	22
93	Adsorption-Induced Electrical Conductivity of Some Ferrocene Derivatives: Rates of Adsorption and Desorption of Vapors. Bulletin of the Chemical Society of Japan, 1992, 65, 3462-3469.	3.2	13
94	Effects of mechanical pressure on charge transport in ferrocene in the presence of adsorbed vapours. Journal of Materials Science, 1992, 27, 5877-5882.	3.7	2
95	Effect of mechanical pressure on the adsorption-induced electrical conductivity of ferrocene. Journal of Materials Science Letters, 1992, 11, 35-37.	0.5	2
96	Adsorption-Induced Unusual Changes in the Electrical Conductivity of Some Ferrocene Derivatives. Bulletin of the Chemical Society of Japan, 1991, 64, 3129-3136.	3.2	13
97	Adsorption-induced electrical conductivity of ferrocene: Rates of adsorption and desorption of vapors. Journal of Physics and Chemistry of Solids, 1991, 52, 1187-1192.	4.0	5
98	Adsorption-induced unusual changes in the electrical conductivity of ferrocene. Journal of Physics and Chemistry of Solids, 1989, 50, 1113-1119.	4.0	28
99	Analysis of Switching Ferrite Cores as Circuit Elements. IEEE Transactions on Component Parts, 1963, 10, 100-106.	0.2	0