

Takashi Naka

List of Publications by Year in descending order

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papers

1,391
citations

430874

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all docs

55
docs citations

55
times ranked

1800
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal Ceria Nanocrystals: A Tailor-Made Crystal Morphology in Supercritical Water. <i>Advanced Materials</i> , 2007, 19, 203-206.	21.0	295
2	Rotational symmetry breaking in the topological superconductor $\text{SrxBi}_2\text{Se}_3$ probed by upper-critical field experiments. <i>Scientific Reports</i> , 2016, 6, 28632.	3.3	131
3	Transparent CoAl_2O_4 Hybrid Nano Pigment by Organic Ligand-Assisted Supercritical Water. <i>Journal of the American Chemical Society</i> , 2007, 129, 11061-11066.	13.7	102
4	Growth Mechanism and Surface Chemical Characteristics of Dicarboxylic Acid-Modified CeO_2 Nanocrystals Produced in Supercritical Water: Tailor-Made Water-Soluble CeO_2 Nanocrystals. <i>Crystal Growth and Design</i> , 2009, 9, 5297-5303.	3.0	88
5	Crystal size and magnetic field effects in Co_3 nanocrystals. <i>Physical Review B</i> , 2009, 79, .	3.2	76
6	Superconductivity in noncentrosymmetric YPtBi under pressure. <i>Physical Review B</i> , 2012, 86, .	3.2	73
7	Supercritical hydrothermal synthesis of hydrophilic polymer-modified water-dispersible CeO_2 nanoparticles. <i>CrystEngComm</i> , 2011, 13, 2841-2848.	2.6	72
8	Synthesis of surface-modified monoclinic ZrO_2 nanoparticles using supercritical water. <i>CrystEngComm</i> , 2012, 14, 2132.	2.6	44
9	Simple and rapid synthesis of ZrO_2 nanoparticles from $\text{Zr}(\text{OEt})_4$ and $\text{Zr}(\text{OH})_4$ using a hydrothermal method. <i>CrystEngComm</i> , 2012, 14, 2117.	2.6	41
10	Pseudogap and transport properties in $\text{Fe}_3\text{V}_x\text{Al}_y$ ($x=0.5\text{--}1.05; y=0.95, 1.05$). <i>Physical Review B</i> , 2002, 65, .	3.2	39
11	CeO_2 nanocatalysts for the chemical recycling of polycarbonate. <i>Catalysis Communications</i> , 2016, 84, 93-97.	3.3	39
12	Synthesis of monocarboxylic acid-modified CeO_2 nanoparticles using supercritical water. <i>RSC Advances</i> , 2014, 4, 49605-49613.	3.6	36
13	Dispersion of Fatty Acid Surface Modified Ceria Nanocrystals in Various Organic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1947-1952.	3.7	34
14	High-pressure study of the basal-plane anisotropy of the upper critical field of the topological superconductor $\text{Sr}_x\text{Bi}_2\text{Se}_3$. <i>Physical Review B</i> , 2016, 94, .	3.2	32
15	Transport Properties of Heusler Compounds $\text{Fe}_3\text{V}_x\text{Al}$. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1378-1381.	1.6	29
16	Surface ligand assisted valence change in ceria nanocrystals. <i>Physical Review B</i> , 2011, 84, .	3.2	29
17	Preparation of Ba-Hexaferrite Nanocrystals by an Organic Ligand-Assisted Supercritical Water Process. <i>Crystal Growth and Design</i> , 2010, 10, 11-15.	3.0	26
18	Weak itinerant ferromagnetism in Heusler-type Fe_2 . <i>Physical Review B</i> , 2010, 82, .	3.2	21

#	ARTICLE	IF	CITATIONS
19	Superconductivity under pressure in the Dirac semimetal PdTe ₂ . Journal of Physics Condensed Matter, 2020, 32, 025603.	1.8	19
20	Bottom-up synthesis of 2D layered high-entropy transition metal hydroxides. Nanoscale Advances, 2022, 4, 2468-2478.	4.6	17
21	Spectroscopic and crystallographic anomalies of (Co _{1-x} Zn _x)Al ₂ O ₄ spinel oxide. Dalton Transactions, 2015, 44, 997-1008.	3.3	16
22	Ferromagnetic quantum singularities and small pseudogap formation in Heusler type Fe ₂ CoGa ₂ O ₄ . Physical Review B, 2012, 85, .	3.2	14
23	Multistage ordering and critical singularities in Co _{1-x} Zn _x Al ₂ O ₄ (0 ≤ x ≤ 1): Dilution and pressure effects in a magnetically frustrated system. Physical Review B, 2015, 91, .	3.2	8
24	Transport and magnetic properties in the Heusler-type Fe ₂ +xV _{1-x} Al under high pressure. Journal of Magnetism and Magnetic Materials, 2007, 310, 1059-1061.	2.3	7
25	Influence of pH tuning at the precursor-preparation process on the structural characteristics and catalytic performance of hydrothermally synthesized ZnAl ₂ O ₄ nanoparticles. Journal of Asian Ceramic Societies, 2018, 6, 7-12.	2.3	7
26	Shape-Controlled Syntheses of Magnetite Microparticles and Their Magnetorheology. International Journal of Molecular Sciences, 2019, 20, 3617.	4.1	7
27	Cluster glass transition and relaxation in the random spinel CoGa ₂ O ₄ . Physical Review B, 2021, 103, .	3.2	7
28	Superconducting and structural properties of the type-I superconductor PdTe ₂ under high pressure. Physical Review B, 2021, 104, .	3.2	7
29	Quenching ilmenite with a high-temperature and high-pressure phase using super-high-energy ball milling. Scientific Reports, 2014, 4, 4700.	3.3	6
30	Synthesis of single-phase ZnAl ₂ O ₄ nanoparticles via a wet chemical approach and evaluation of crystal structure characteristics. Crystal Research and Technology, 2016, 51, 324-332.	1.3	6
31	Practical Solution for Effective Whole-Body Magnetic Fluid Hyperthermia Treatment. Journal of Nanomaterials, 2017, 2017, 1-7.	2.7	6
32	Observation of the First Spin Crossover in an Iron(II) Complex with an S ₆ Coordination Environment: Tris[bis(N,N-diethylamino)carbeniumdithiocarboxylato]iron(II) Hexafluorophosphate. Chemistry - A European Journal, 2018, 24, 17955-17963.	3.3	6
33	Origin of the difference between the high and low-T _c phases in the yttrium sesquicarbide system. Science and Technology of Advanced Materials, 2006, 7, S99-S103.	6.1	5
34	Low-temperature crystal growth of aluminium-doped zinc oxide nanoparticles in a melted viscous liquid of alkylammonium nitrates for fabrication of their transparent crystal films. CrystEngComm, 2014, 16, 10539-10546.	2.6	5
35	Composition induced metal-insulator quantum phase transition in the Heusler type Fe ₂ VAI. Journal of Physics Condensed Matter, 2016, 28, 285601.	1.8	5
36	Chemical and physical pressure effects in the A-site spinel antiferromagnets CoM ₂ O ₄ (M = Al, Co, and)	1.6	5

#	ARTICLE	IF	CITATIONS
37	Pressure-induced Magnetic Transition in the Van Vleck Paramagnet PrCu ₂ . Journal of the Physical Society of Japan, 2003, 72, 1758-1762.	1.6	4
38	Angular variation of the magnetoresistance of the superconducting ferromagnet UCoGe. Physical Review B, 2014, 89, .	3.2	4
39	Pressure effects of susceptibility and specific heat in PrCu ₂ . Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1008-1010.	2.3	3
40	Inhomogeneous magnetic phase in Co ^{Al} O spinel nanocrystals. Journal of Magnetism and Magnetic Materials, 2014, 350, 161-166.	2.3	3
41	Influence of the crystal structure on the physical properties of monoclinic ZrO ₂ nanocrystals. Nano Structures Nano Objects, 2015, 1, 1-6.	3.5	3
42	Synthesis of laminated composites of alumina and nickel oxides by AC anodization and electrodeposition. Surface and Coatings Technology, 2017, 310, 93-97.	4.8	3
43	Characteristics of a granular electronic system in Heusler-type Fe _{2+x} V _{1-x} Al. Journal of Physics Condensed Matter, 2013, 25, 275603.	1.8	2
44	Direct Conversion from Oleylamine-coordinated Iron Oxalate Powder to Colloidal Magnetite Nanoparticle <i>via</i> Simple Thermal Treatment. Chemistry Letters, 2018, 47, 1333-1336.	1.3	2
45	Emergence of ferromagnetism due to charge transfer in compressed ilmenite powder using super-high-energy ball milling. Scientific Reports, 2020, 10, 5293.	3.3	2
46	Size-tunable synthesis of iron oxide nanocrystals by continuous seed-mediated growth: role of alkylamine species in the stepwise thermal decomposition of iron(ii) oxalate. Dalton Transactions, 2021, 50, 16021-16029.	3.3	2
47	Pressure-Induced Metal-Insulator Transition in the Itinerant Antiferromagnet Nb _{1-x} Ti _x O _{2.9} ($x=0$ and 0.2). Materials Transactions, 2006, 47, 501-503.	1.2	1
48	Impact of isoelectronic substitution and hydrostatic pressure on the quantum critical properties of CeRhSi ₃ . Journal of Physics Condensed Matter, 2020, 32, 425601.	1.8	1
49	Slow spin dynamics in a CoM ₂ O ₄ A-site spinel (M=Al, Ga, and Rh). Journal of Physics Communications, 2022, 6, 055001.	1.2	1
50	Magnetic anisotropy in the pressure-induced phase of the orthorhombic PrCu ₂ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 201-202.	2.3	0
51	Electrical Resistivity and Thermopower of the Heusler Compound Fe _{1.98} V _{1.02} Al. Journal of the Physical Society of Japan, 2011, 80, SA115.	1.6	0
52	Review of High Pressure Studies on Doped Bi ₂ Se ₃ Superconductors. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2020, 30, 290-297.	0.0	0
53	Ferromagnetism and exchange bias in compressed ilmenite-hematite solid solution as a source of planetary magnetic anomalies. Science Advances, 2022, 8, eabj2487.	10.3	0
54	Structural and optical properties of Zn-deficient ZnGa ₂ O ₄ nanoparticles hydrothermally synthesized at low temperature by rapid heating using microwaves. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	0