Hyoung Chan Kim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8296892/publications.pdf

Version: 2024-02-01

46 papers	1,402 citations	236925 25 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1447 citing authors

#	Article	IF	Citations
1	Tantalum and molybdenum barriers to prevent carbon diffusion in spark plasma sintered tungsten. Scripta Materialia, 2021, 196, 113759.	5.2	11
2	Analysis of hardness and microstructural changes in Tungsten mono-blocks exposed to high heat flux at 10 MW/m2. Fusion Engineering and Design, 2021, 170, 112530.	1.9	3
3	Enhancement of mechanical properties by repeated heat treatment in reduced activation ferritic/martensitic steel with Ta and Ti. Journal of Nuclear Materials, 2021, , 153321.	2.7	6
4	Effect of concentrations of Ta and Ti on microstructure and mechanical properties of 9Cr-1W reduced activation ferritic/martensitic steel. Fusion Engineering and Design, 2020, 151, 111364.	1.9	10
5	Manufacturing and testing of flat type W/Cu/CuCrZr mock-ups by HIP process with PVD coating. Fusion Engineering and Design, 2019, 146, 603-608.	1.9	10
6	Thermal and microstructural properties of spark plasma sintered tungsten for the application to plasma facing materials. Fusion Engineering and Design, 2019, 146, 2649-2653.	1.9	11
7	Effect of Ti addition on hardness change during tempering in reduced activation ferritic/martensitic (RAFM) steels. Journal of Nuclear Materials, 2018, 508, 595-598.	2.7	22
8	Influence of Heat Treatment on Mechanical Properties for Cold Worked 304 Austenitic Stainless Steel. Journal of Korean Institute of Metals and Materials, 2018, 56, 490-498.	1.0	2
9	Reheating cracking susceptibility in the weld heat-affected zone of a reduced activation ferritic-martensitic steel for fusion reactors. Fusion Engineering and Design, 2017, 124, 1038-1041.	1.9	2
10	Microstructure and tensile and Charpy impact properties of reduced activation ferriticâ€“martensitic steel with Ti. Fusion Engineering and Design, 2017, 124, 953-957.	1.9	35
11	Effect of Heat Input on Microstructure Evolution and Mechanical Properties in the Weld Heat-Affected Zone of 9Cr-2W-VTa Reduced Activation Ferritic-Martensitic Steel for Fusion Reactor. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 156-163.	2.2	18
12	Effect of constituent phase on mechanical properties of 9Crâ€“1WVTa reduced activation ferriticâ€“martensitic steels. Journal of Nuclear Materials, 2014, 455, 421-425.	2.7	16
13	An effect of heavy water in a Korean DEMO water cooled ceramic blanket (WCCB). Fusion Engineering and Design, 2013, 88, 2306-2308.	1.9	4
14	Temperature Dependence of Electrical Resistivity (4â€“300ÂK) in Aluminumâ€•and Boronâ€Ðoped <scp><scp>SiC</scp></scp> Ceramics. Journal of the American Ceramic Society, 2013, 96, 2525-2530.	3.8	54
15	System analysis study for Korean fusion DEMO reactor. Fusion Engineering and Design, 2013, 88, 742-745.	1.9	11
16	A preliminary conceptual design study for Korean fusion DEMO reactor. Fusion Engineering and Design, 2013, 88, 488-491.	1.9	46
17	Stress- and temperature-dependent hysteresis of the shear modulus of solid helium. Physical Review B, 2013, 87, .	3.2	9
18	Reversible Crystalâ€toâ€Amorphous Structural Conversion in the Single Endâ€On Azideâ€Bridged Co^{II} Complex: Concomitant Color and Magnetic Modulations. Chemistry - A European Journal, 2012, 18, 11541-11544.	3.3	28

#	Article	IF	Citations
19	Solvent controlled synthesis of new hematite superstructures with large coercive values. CrystEngComm, 2012, 14, 2024.	2.6	23
20	Spin crossover in the cyanide-bridged MoVMnIII single-chain magnet containing FeII cations. Chemical Communications, 2011, 47, 10416.	4.1	38
21	Cyanide-Bridged W^VMn^{III} Single-Chain Magnet with Isolated Mn^{III} Moieties Exhibiting Two Types of Relaxation Dynamics. Inorganic Chemistry, 2011, 50, 11306-11308.	4.0	32
22	Electrodischarge-Machinable Silicon Carbide Ceramics Sintered with Yttrium Nitrate. Journal of the American Ceramic Society, 2011, 94, 991-993.	3.8	60
23	Oneâ€Dimensional Endâ€Toâ€End Azideâ€Bridged Mn^{III} Complexes Incorporating Alkali Metal Ions: Slow Magnetic Relaxations and Metamagnetism. Chemistry - A European Journal, 2011, 17, 3028-3034.	3.3	50
24	End-to-End Azide-Bridged Manganese(III) Chain Compounds: Field-Induced Magnetic Phase Transitions and Variation of T_C to 38 K Depending on the Side Groups of the Schiff Bases. Inorganic Chemistry, 2011, 50, 10777-10785.	4.0	33
25	Copper Better than Silver: Electrical Resistivity of the Grain-Free Single-Crystal Copper Wire. Crystal Growth and Design, 2010, 10, 2780-2784.	3.0	41
26	Magnetic metalâ€“organic framework constructed from a paramagnetic metalloligand exhibiting a significant sorption and reversible magnetic conversions. Chemical Communications, 2010, 46, 8779.	4.1	59
27	Cyanide-Bridged Fe(III)â"Mn(III) Bimetallic Systems Assembled from the fac-Fe Tricyanide and Mn Schiff bases: Structures, Magnetic Properties, and Density Functional Theory Calculations. Inorganic Chemistry, 2010, 49, 4632-4642.	4.0	44
28	Transverse Load Versus Mechanical Characteristics and Inter-Strand Resistances in the Cable of the â€œOption 2â€•Specification for ITER TF Conductor. IEEE Transactions on Applied Superconductivity, 2010, 20, 495-498.	1.7	4
29	Measurement of the Intrinsic Anomalous Hall Effect in a 2D Hole System with Rashba Spin-orbit Coupling. Journal of the Korean Physical Society, 2010, 57, 1933-1936.	0.7	3
30	Anomalous corrections to the Hall resistivity of spin-polarized holes in a two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GaAs</mml:mtext><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mtext>Al</mml:m Physical Review B, 2009, 80, .	3.2	2
31	An Endâ€On Azideâ€Bridged Antiferromagnetic Singleâ€Chain Magnet Involving Spin Canting and Fieldâ€Induced Twoâ€Step Magnetic Transitions. Chemistry - A European Journal, 2009, 15, 3661-3665.	3.3	98
32	Study on the weld characteristics of 316LN by magnetization measurement. Journal of Nuclear Materials, 2009, 386-388, 650-653.	2.7	8
33	Cyanide-Bridged One-Dimensional Ferromagnetic RuIIIMnIII Coordination Polymer Exhibiting a Field-Induced Magnetic Phase Transition. Inorganic Chemistry, 2009, 48, 816-818.	4.0	45
34	One-Dimensional Cyanide-Bridged Mn^{III}W^V Bimetallic Complexes: Metamagnetism, Spontaneous Resolution, and Slow Magnetic Relaxation. Inorganic Chemistry, 2009, 48, 9066-9068.	4.0	38
35	Octacyanometalate-Based Ferrimagnetic M^VMn^{III} (M = Mo, W) Bimetallic Chain Racemates with Slow Magnetic Relaxations. Inorganic Chemistry, 2009, 48, 5617-5619.	4.0	54
36	Doping effects of multiferroic manganites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
37	Syntheses, crystal structures and magnetic properties of cyano- and phenoxide-bridged Fe(iii)Mn(iii) tetramers containing fac-Fe(iii) tricyanides and Mn(iii) Schiff bases. Dalton Transactions, 2009, , 1954.	3.3	30
38	Structure and magnetic properties of cyanide-bridged NiII9MoV6 cluster modified by bidentate capping ligands. Polyhedron, 2008, 27, 299-303.	2.2	34
39	A new [NiII4] distorted cubane assembly on four solvent derived Î¼3-OMe corners: Solvent dependent formation and cleavage of exogenous bridges. Polyhedron, 2008, 27, 2372-2378.	2.2	26
40	Results of a New Generation of ITER TF Conductor Samples in SULTAN. IEEE Transactions on Applied Superconductivity, 2008, 18, 459-462.	1.7	60
41	Development and Sultan Test Result of ITER Conductor Samples of Korea. IEEE Transactions on Applied Superconductivity, 2008, 18, 1084-1087.	1.7	8
42	Two WVâ€“MnIIIbimetallic assemblies built by octacyanotungstate(v) and MnIIISchiff bases: molecular structures and a spin-flop transition. Dalton Transactions, 2007, , 2070-2076.	3.3	25
43	Synthesis, structures, and magnetic properties of one-dimensional Feâ€“M (M=NiII, CuII) coordination polymers bridged by nitroprusside. Inorganica Chimica Acta, 2007, 360, 2523-2531.	2.4	8
44	Surface Modification of a Six-Capped Body-Centered Cube Ni9W6 Cluster: Structure and Single-Molecule Magnetism. Angewandte Chemie - International Edition, 2006, 45, 7424-7426.	13.8	132
45	Chiral azide-bridged two-dimensional Cu(ii) compounds showing a field-induced spinâ€“flop transition. Chemical Communications, 2005, , 4116.	4.1	56
46	Study of Transport and Dielectric of Resistive Memory States in NiO Thin Film. Japanese Journal of Applied Physics, 2005, 44, L1301-L1303.	1.5	35