Andrei Galatanu

List of Publications by Year
in descending order

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Version: 2024-02-01

85 papers	1,433 citations	331670 21 h-index	377865 34 g-index
85 all docs	85 docs citations	85 times ranked	1519 citing authors

#	Article	IF	Citations
1	Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors. Nanoscale, 2013, 5, 2692.	5.6	114
2	Physical properties of skutterudites , M = Fe, Co, Rh, Ir. European Physical Journal B, 2000, 14, 483-493.	1.5	74
3	Magnetic structure and the crystal field excitation in heavy-fermion antiferromagnetic superconductor CePt3Si. Journal of Physics Condensed Matter, 2004, 16, L207-L212.	1.8	63
4	Melt infiltrated tungstenâ€“copper composites as advanced heat sink materials for plasma facing components of future nuclear fusion devices. Fusion Engineering and Design, 2017, 124, 455-459.	1.9	63
5	Anisotropic electrical and magnetic properties ofCeTSb2(T=Cu,Au, and Ni) single crystals. Physical Review B, 2003, 68, .	3.2	58
6	The transport properties of RCo2compounds. Journal of Physics Condensed Matter, 1995, 7, 6687-6706.	1.8	57
7	Anisotropic, thermal, and magnetic properties ofCeAgSb2:Explanation via a crystalline electric field scheme. Physical Review B, 2003, 67, .	3.2	57
8	Crystal structure and physical properties ofEu0.83Fe4Sb12. Physical Review B, 2001, 63, .	3.2	50
9	Pressure- and field-dependent behavior ofYbCu4Au. Physical Review B, 1994, 50, 9300-9307.	3.2	47
10	Crystal structure, magnetic ordering, and magnetic excitation in the4f-localized ferromagnetCeAgSb2. Physical Review B, 2003, 68, .	3.2	47
11	Superconductivity in the complex metallic alloy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi mathvariant="normal">Al</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Mg</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	3.2	44
12	High-Temperature Magnetic Investigations on Uranium Compounds. Journal of the Physical Society of Japan, 2005, 74, 1582-1597.	1.6	39
13	Non-Fermi-liquid behavior ofYbCu5â^'xAlx. Physical Review B, 1999, 60, 1238-1246.	3.2	35
14	Magnetic behaviour of PrFe4Sb12 and NdFe4Sb12 skutterudites. Physica B: Condensed Matter, 2002, 312-313, 840-842.	2.7	31
15	Consolidation of Wâ€“Ta composites: Hot isostatic pressing and spark and pulse plasma sintering. Fusion Engineering and Design, 2015, 98-99, 1950-1955.	1.9	31
16	Characterization and physical properties of the indides Yb2T2In (T=Cu, Pd, Au). Intermetallics, 2001, 9, 481-485.	3.9	28
17	Low Temperature Magnetic Properties of CeTBi2(T: Ni, Cu and Ag) Single Crystals. Journal of the Physical Society of Japan, 2003, 72, 2632-2639.	1.6	25
18	Electrical and Magnetic Properties of a Single Crystal UCu2Si2. Journal of the Physical Society of Japan, 2005, 74, 1552-1556.	1.6	25

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19	Flexible Delivery Patch Systems based on Thermoresponsive Hydrogels and Submicronic Fiber Heaters. Scientific Reports, 2018, 8, 17555.	3.3	24
20	Electronic, Magnetic and Superconducting Properties of Quasi-two Dimensional Compounds Ce2RhIn8and La2RhIn8. Journal of the Physical Society of Japan, 2004, 73, 649-655.	1.6	22
21	Magnetic properties of UTGa5 (T: transition metal). Physica B: Condensed Matter, 2005, 359-361, 1039-1041.	2.7	22
22	Physical properties and superconductivity of skutterudite-related Yb3Co4.3Sn12.7and Yb3Co4Ge13. Journal of Physics Condensed Matter, 2001, 13, 7391-7402.	1.8	21
23	An unusual hollow cylindrical Fermi surface of a quasi-two-dimensional compound CeAgSb₂. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 1867-1892.	0.6	19
24	High Temperature Magnetic Properties of UIr Single Crystals. Journal of the Physical Society of Japan, 2004, 73, 766-767.	1.6	18
25	Direct and contactless electrical control of temperature of paper and textile foldable substrates using electrospun metallic-web transparent electrodes. Scientific Reports, 2016, 6, 34584.	3.3	18
26	Magnetic Compton scattering study of CeRh3B2. Journal of Physics Condensed Matter, 2003, 15, S2183-S2186.	1.8	17
27	Single Crystal Growth and Magnetic Properties of 5f-itinerant Antiferromagnet UPdGa5. Journal of the Physical Society of Japan, 2003, 72, 2622-2626.	1.6	16
28	Unique Fermi surfaces with quasi-one-dimensional character in CeRh3B2and LaRh3B2. Journal of Physics Condensed Matter, 2003, 15, L721-L727.	1.8	15
29	Synthesis, crystal structure and magnetic properties of Yb8Ag18.5Al47.5, Yb2Pd2Cd and Yb1.35Pd2Cd0.65. Journal of Magnetism and Magnetic Materials, 2007, 308, 143-152.	2.3	14
30	Sintering and irradiation of copper-based high entropy alloys for nuclear fusion. Fusion Engineering and Design, 2019, 146, 1824-1828.	1.9	14
31	Optical Properties of Composites Based on Graphene Oxide and Polystyrene. Molecules, 2020, 25, 2419.	3.8	14
32	A study of the pressure dependent resistivity of hexagonal CePd2Al3 and CePd2Ga3. Physica B: Condensed Matter, 1995, 206-207, 231-233.	2.7	13
33	Magnetic and Fermi Surface Properties in PrRh3B2. Journal of the Physical Society of Japan, 2004, 73, 2266-2275.	1.6	13
34	Direct sintering of SiCâ€“W composites with enhanced thermal conductivity. Fusion Engineering and Design, 2013, 88, 2598-2602.	1.9	13
35	On the unusual magnetic behaviour of CeRh3B2. Journal of Physics Condensed Matter, 2003, 15, S2187-S2191.	1.8	12
36	Cu-based composites as thermal barrier materials in DEMO divertor components. Fusion Engineering and Design, 2017, 124, 1131-1134.	1.9	12

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37	Thermophysical properties of Cu-ZrO2 composites as potential thermal barrier materials for a DEMO W-monoblock divertor. Fusion Engineering and Design, 2018, 127, 179-184.	1.9	11
38	Thermophysical and mechanical properties of W-Cu laminates produced by FAST joining. Fusion Engineering and Design, 2019, 146, 2371-2374.	1.9	10
39	Onset of magnetism and Fermi-liquid instabilities in Yb compounds. Physica B: Condensed Matter, 2000, 281-282, 319-325.	2.7	9
40	Electrical and magnetic properties of the ceriumâ€“transition metal intermetallics CeTSb2 (T: Cu, Au,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	9
41	Shape memory and associated properties in Feâ€“Mnâ€“Si-based ribbons produced by melt-spinning. Journal of Magnetism and Magnetic Materials, 2008, 320, e164-e167.	2.3	9
42	Thermal conductivity and diffusivity of Cu-Y alloys produced by different powder metallurgy routes. Fusion Engineering and Design, 2017, 124, 1156-1160.	1.9	9
43	High temperature thermo-physical properties of SPS-ed Wâ€“Cu functional gradient materials. Materials Research Express, 2018, 5, 026502.	1.6	9
44	Effect of aluminium on phase stability in the Gd3Co11(B,Al)4 system. Journal of Alloys and Compounds, 1997, 262-263, 356-362.	5.5	8
45	Preferential cobalt site occupation in some R3(Co, M)11B4 compounds. Solid State Communications, 1997, 102, 23-27.	1.9	8
46	Magnetic Properties of CeNiGe2. Journal of the Physical Society of Japan, 2003, 72, 2692-2693.	1.6	8
47	Magnetic Properties and a Change of the Electrical Resistivity under Pressure in CePtGe2. Journal of the Physical Society of Japan, 2003, 72, 2338-2343.	1.6	8
48	Small Saturation Moment due to the Crystalline Electric Field Effect forThSite Symmetry in the Ferromagnet UFe4P12. Journal of the Physical Society of Japan, 2004, 73, 2533-2538.	1.6	8
49	Beneficial effects of a WC addition in FAST-densified tungsten. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138666.	5.6	8
50	The inclusion of ceramic carbides dispersion in In and Yb filled CoSb3 and their effect on the thermoelectric performance. Journal of Alloys and Compounds, 2022, 893, 162400.	5.5	8
51	Low-temperature behaviour of CePd2â^'xNixAl3. Physica B: Condensed Matter, 2000, 281-282, 83-85.	2.7	7
52	Experimental study of physical properties in the complex magnetic phase diagram ofCe(Rh1â^'xRux)3B2. Physical Review B, 2001, 64, .	3.2	7
53	Electrical, Thermal and Magnetic Properties of CeNiIn4. Journal of the Physical Society of Japan, 2004, 73, 664-668.	1.6	7
54	The formation, structure and physical properties of M2Pd14+xB5â^'ycompounds, with M = La, Ce, Pr, Nd, Sm, Eu, Gd, Lu and Th. Journal of Physics Condensed Matter, 2009, 21, 305401.	1.8	7

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55	Effect of Cr and V coatings on W base material in W-Eurofer brazed joints for fusion applications. Fusion Engineering and Design, 2020, 159, 111748.	1.9	7
56	57Fe MÃ¶ssbauer study of Prm(Fe, Mo)n compounds with m:n=2:17 and 1:12. Journal of Alloys and Compounds, 1999, 285, 37-47.	5.5	6
57	Single crystal growth and magnetic property of UNiSb2. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 62-63.	2.3	6
58	Low-activation Wâ€“Siâ€“C composites for fusion application. Fusion Engineering and Design, 2015, 100, 638-645.	1.9	6
59	Cracks and nanodroplets produced on tungsten surface samples by dense plasma jets. Applied Surface Science, 2018, 434, 1122-1128.	6.1	6
60	Structural and magnetic investigation of nonstoichiometric YFe10V2 and its interstitial carbide prepared by arc-melting. Journal of Alloys and Compounds, 2000, 299, 45-54.	5.5	5
61	Pressure response of. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 227-228.	2.3	5
62	Magnetic and MÃ¶ssbauer spectral studies of R3Fe29â^'xMox compounds (R=Y, Nd, Sm, Gd, Tb, and Dy). Journal of Alloys and Compounds, 2005, 392, 31-39.	5.5	5
63	Magnetic behaviour of at high temperatures. Physica B: Condensed Matter, 2006, 378-380, 999-1000.	2.7	5
64	The effects of mechanical alloying on the physical and thermal properties of CuCrFeTiV alloy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114805.	3.5	5
65	Local effects of interstitial versus substitutional atoms in Y2Fe17â^'xMxAy compounds, with M=Al or Si and A=C or N. Journal of Applied Physics, 1997, 82, 6193-6202.	2.5	4
66	New phase boundary between magnetic and non-Fermi-liquid in Ce(Rh1â^'xRux)3B2, for 0â©½xâ©½0.4. Journal of Applied Physics, 1998, 83, 6423-6425.	2.5	4
67	Influence of the synthesis parameters on the transport properties of Mg2Si0.4Sn0.6 solid solutions produced by melting and spark plasma sintering. Journal of Physics and Chemistry of Solids, 2022, 163, 110561.	4.0	4
68	Magnetic properties of Gd3Co11â^'xNixB4 compounds. Journal of Magnetism and Magnetic Materials, 1996, 162, 50-54.	2.3	3
69	Pressure Studies on Fe 1â^'x Si 1+x Single Crystals (â^'0.003â‰¤ x â‰¤0.025). High Pressure Research, 2002, 22, 205-208.	1.2	3
70	Antiferromagnetic and ferromagnetic phases of. Physica B: Condensed Matter, 2005, 359-361, 1069-1071.	2.7	3
71	Magnetic and Fermi Surface Properties in Ferromagnets NdRh3B2 and GdRh3B2. Journal of the Physical Society of Japan, 2006, 75, 064702.	1.6	3
72	Development of W-monoblock divertor components with embedded thermal barrier interfaces. Fusion Engineering and Design, 2019, 146, 1351-1354.	1.9	3

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73	Structural properties of conducting and semiconducting polymers. Physica B: Condensed Matter, 1997, 234-236, 242-244.	2.7	2
74	Loss of magnetism in CePd2â^'xNixAl3. Physica B: Condensed Matter, 2002, 312-313, 464-465.	2.7	2
75	Magnetic and Fermi Surface Properties of an Antiferromagnet Ce3Sn7. Journal of the Physical Society of Japan, 2004, 73, 2276-2282.	1.6	2
76	Detailed study of the CePd2â^'xNixAl3magnetic phase diagram around its critical concentration. Journal of Physics Condensed Matter, 2006, 18, 3789-3802.	1.8	2
77	Irradiation of W and K-Doped W Laminates without or with Cu, V, Ti Interlayers under a Pulsed 6 MeV Electron Beam. Materials, 2022, 15, 956.	2.9	2
78	Thermal expansion and magnetostriction in CeRh3B2. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E17-E18.	2.3	1
79	Single-crystal growth and magnetic properties of a new ternary uranium compound U3Ni5Al19. Physica B: Condensed Matter, 2005, 359-361, 1006-1008.	2.7	1
80	CEF-scheme of a semimetal. Physica B: Condensed Matter, 2005, 359-361, 323-325.	2.7	1
81	Magnetic structure and crystal field excitation in heavy fermion superconductor CePt3Si. Physica B: Condensed Matter, 2005, 359-361, 383-385.	2.7	1
82	Low temperature magnetic and transport properties in compounds. Physica B: Condensed Matter, 2008, 403, 937-939.	2.7	1
83	Magnetic and Moessbauer Spectral Studies of Ln3Fe29-xMox Compounds (Ln: Y, Nd, Sm, Gd, Tb, and Dy).. ChemInform, 2005, 36, no.	0.0	0
84	Crossover of the 5f electrons from itinerant to localized in UPtGa5. Physica B: Condensed Matter, 2006, 378-380, 972-973.	2.7	0
85	W-Ta Composites Consolidated by Spark Plasma Sintering. Microscopy and Microanalysis, 2015, 21, 27-28.	0.4	0