

Serena De Negri

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	La ₂ Pd ₃ Ge ₅ and Nd ₂ Pd ₃ Ge ₅ Compounds: Chemical Bonding and Physical Properties. <i>Inorganic Chemistry</i> , 2021, 60, 3345-3354.	1.9	11
2	Unpredicted but It Exists: Trigonal Sc ₂ Ru with a Significant Metal-Metal Charge Transfer. <i>Inorganic Chemistry</i> , 2021, 60, 10084-10088.	1.9	3
3	Solid state interactions in the La-Au-Mg system: phase equilibria, novel compounds and chemical bonding. <i>Dalton Transactions</i> , 2020, 49, 12056-12067.	1.6	15
4	New Quasicrystal Approximant in the Sc-Pd System: From Topological Data Mining to the Bench. <i>Chemistry of Materials</i> , 2020, 32, 1064-1079.	3.2	10
5	Polar Covalent Bonding Beyond the Zintl Picture in Intermetallic Rare-Earth Germanides. <i>Chemistry - A European Journal</i> , 2019, 25, 6600-6612.	1.7	29
6	Synthesis, crystal structure and physical properties of Yb ₂ Pd ₃ Ge ₅ . <i>Journal of Alloys and Compounds</i> , 2019, 783, 601-607.	2.8	5
7	Lu ₅ Pd ₄ Ge ₈ and Lu ₃ Pd ₄ Ge ₄ : Two More Germanides among Polar Intermetallics. <i>Crystals</i> , 2018, 8, 205.	1.0	13
8	Isothermal section of the La-Mg-Sn system at 500 °C and crystal structure of the new ternary stannide LaMgSn ₂ . <i>Journal of Solid State Chemistry</i> , 2017, 248, 32-39.	1.4	8
9	A new glance on R ₂ MGe ₆ (R = rare earth metal, M = another metal) compounds. An experimental and theoretical study of R ₂ PdGe ₆ germanides. <i>Dalton Transactions</i> , 2017, 46, 14021-14033.	1.6	11
10	The R ₂ MgSn ₂ Series of Compounds (R = Rare Earth Metal): Synthesis, Crystal Structure, and Magnetic Measurements. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3040-3047.	1.0	4
11	Development of a modular room-temperature hydride storage system for vehicular applications. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	30
12	Yb ₉ CuMg ₄ (x = 0.034): A β -Phase Formed by Lanthanoids. <i>Inorganic Chemistry</i> , 2016, 55, 8174-8183.	1.9	7
13	The R ₂ Pd ₃ Ge ₅ (R = La, Nd, Sm) germanides: synthesis, crystal structure and symmetry reduction. <i>Structural Chemistry</i> , 2016, 27, 1693-1701.	1.0	17
14	Spinel type twins of the new cubic Er ₆ Zn ₂₃ Ge compound. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2016, 231, 71-77.	0.4	1
15	Crystal structures of the new ternary stannides La ₃ Mg ₄ Sn ₂ and LaMg ₃ Sn ₂ . <i>Journal of Solid State Chemistry</i> , 2016, 233, 407-414.	1.4	4
16	Vacancy Ordering as a Driving Factor for Structural Changes in Ternary Germanides: The New R ₂ Zn _{1-x} Ge ₆ Series of Polar Intermetallics (R = Rare-Earth Metal). <i>Inorganic Chemistry</i> , 2015, 54, 2411-2424.	1.9	13
17	Phase equilibria in the La-Mg-Ge system at 500 °C and crystal structure of the new ternary compounds La ₁₁ Mg ₂ Ge ₇ and LaMg _{3-x} Ge ₂ . <i>Journal of Solid State Chemistry</i> , 2014, 218, 184-195.	1.4	13
18	The 400 °C Isothermal Section of the La-Co-Mg Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014, 35, 377-383.	0.5	18

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19	Study on La-Mg based ternary system for hydrogen storage. Journal of Alloys and Compounds, 2013, 580, S159-S162.	2.8	16
20	Microstructure and <i>in vitro</i> degradation performance of Mg-Zn-Mn alloys for biomedical application. Journal of Biomedical Materials Research - Part A, 2013, 101A, 704-711.	2.1	46
21	New Ternary Germanides La ₄ Mg ₅ Ge ₆ and La ₄ Mg ₇ Ge ₆ : Crystal Structure and Chemical Bonding. Inorganic Chemistry, 2012, 51, 207-214.	1.9	24
22	Synthesis and Crystallochemical Characterisation of the Intermetallic Phases La(Ag _x Mg _{1-x}) ₁₂ (0.11 ≤ x ≤ 0.21), LaAg ₄ Mg ₂ (x = 0.15) and LaAg ₂ Mg ₂ (0 ≤ x ≤ 0.45). European Journal of Inorganic Chemistry, 2012, 2012, 4811-4821.	1.0	18
23	The isothermal section of the La-Ag-Mg phase diagram at 400°C. Intermetallics, 2011, 19, 671-681.	1.8	34
24	3D [Ag-Mg] polyanionic frameworks in the La ₄ Ag ₁₀ Mg ₃ and La ₄ Ag _{10.3} Mg ₁₂ new ternary compounds. Journal of Solid State Chemistry, 2010, 183, 2995-3001.	1.4	14
25	Bio-corrosion characterization of Mg-Zn-X (X = Ca, Mn, Si) alloys for biomedical applications. Journal of Materials Science: Materials in Medicine, 2010, 21, 1091-1098.	1.7	129
26	Synthesis and characterization of a novel polystyrene-tethered niobium methoxo species. Its application in the CO ₂ -based carboxylation of methanol to afford dimethyl carbonate. Applied Catalysis A: General, 2010, 387, 113-118.	2.2	22
27	The novel intermetallic phases TbNiMg and Tb _{4+x} Ni ₂ Mg _{3-2x} (x = 0.2): Synthesis, crystal structure and peculiarities. Intermetallics, 2010, 18, 719-724.	1.8	11
28	The Mg-Zn-Si system: Constitutional properties and phase formation during mechanical alloying. Intermetallics, 2010, 18, 1722-1728.	1.8	10
29	Ferromagnetic spin fluctuations in quasi-2D EuCu ₉ Mg ₂ . Journal of Alloys and Compounds, 2010, 508, 28-36.	2.8	7
30	Inhomogeneous 2D linear intergrowth structures among novel Y-Cu-Mg ternary compounds with yttrium/copper equiatomic ratio. Solid State Sciences, 2009, 11, 801-811.	1.5	26
31	Anti-Mackay Polyicosahedral Clusters in La-Ni-Mg Ternary Compounds: Synthesis and Crystal Structure of the La ₄₃ Ni ₁₇ Mg ₅ New Intermetallic Phase. Inorganic Chemistry, 2009, 48, 11586-11593.	1.9	20
32	The isothermal section of the La-Si-Mg system at 500°C. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 44-49.	0.7	13
33	The Y-Cu-Mg system in the 0-66.7at.% Cu concentration range: The isothermal section at 400°C. Intermetallics, 2009, 17, 614-621.	1.8	35
34	Crystal chemical peculiarities of rare earth (R) rich magnesium intermetallic compounds in R-Ta-Mg (T = Ag, Au, Pd). Intermetallics, 2008, 16, 399-405.	1.8	12
35	Isothermal section of the La-Ni-Zn system from 16.7 to 100at.% La at 400°C. Intermetallics, 2008, 16, 168-178.	1.8	10
36	Yb(Cu,T) ₅ and Yb(Cu,T) _{4.5} solid solutions (T=Ag, Au, Pd). Intermetallics, 2008, 16, 399-405.	1.8	12

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37	The ternary system Yb-Cu-Mg: Isothermal section at 400°C in the range from 0 to 67at.% Cu. <i>Intermetallics</i> , 2008, 16, 1285-1291.	1.8	16
38	Constitutional properties of the La-Cu-Mg system at 400°C. <i>Journal of Alloys and Compounds</i> , 2007, 427, 134-141.	2.8	43
39	Phase relationships of the La-Ni-Mg system at 500°C from 66.7 to 100at.% Ni. <i>Journal of Alloys and Compounds</i> , 2007, 439, 109-113.	2.8	35
40	Crystallochemistry of the novel two-layer RECuMg ₄ (RE=La, Tb) ternary compounds. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3066-3075.	1.4	23
41	Tb ₂ Ni ₂ Mg ₃ : a new structure type derived from the Ru ₃ Al ₂ B ₂ type. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, i13-i16.	0.4	14
42	Crystal Structure Investigation of RE-Ni-Zn Ternary Compounds (RE = La, Ce, Tb). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 482-489.	0.6	9
43	Controlling the Critical Temperature in Mg _{1-x} Al _x B ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 495-501.	0.8	11
44	X-ray Absorption Near Edge Structure (XANES) microscopy of phase separation in superconducting Mg _{1-x} Sc _x B ₂ . <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 717-719.	1.5	5
45	Electrochemical behaviour assessment of novel Mg-rich Mg-Al-RE alloys (RE=Ce, Er). <i>Intermetallics</i> , 2006, 14, 1487-1492.	1.8	89
46	Rare earth-copper-magnesium compounds RECu ₉ Mg ₂ (RE=Y, La-Nd, Sm-Ho, Yb) with ordered CeNi ₃ -type structure. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3073-3081.	1.4	30
47	T _c as a Function of Electron Doping in Mg ₁₀ B ₂ Using Sc for Mg Substitution. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 667-670.	0.5	2
48	Anomalous Thermal Expansion in Superconducting Mg _{1-x} Al _x B ₂ System. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 737-741.	0.5	4
49	Phase relationships of the La-Ni-Mg system at 500°C from 0 to 66.7at.% Ni. <i>Journal of Alloys and Compounds</i> , 2005, 397, 126-134.	2.8	58
50	Effect of erbium addition on the corrosion behaviour of Mg-Al alloys. <i>Intermetallics</i> , 2005, 13, 55-60.	1.8	99
51	Substitution of Sc for Mg in MgB ₂ : Effects on transition temperature and Kohn anomaly. <i>Physical Review B</i> , 2004, 70, .	1.1	79
52	Sc doping of MgB ₂ : the structural and electronic properties of Mg _{1-x} Sc _x B ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1479-1484.	1.9	28
53	Advances in doping MgB ₂ : tuning the Fermi level to the ϵ -shape resonance by Sc substitution. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 1832-1835.	0.8	0
54	Gd(Mn _{1-x} In _x) ₂ : crystal structure and physical properties. <i>Journal of Alloys and Compounds</i> , 2004, 365, 58-67.	2.8	11

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55	Influence of the rare earth content on the electrochemical behaviour of Al-Rn-Mg-Er alloys. Intermetallics, 2003, 11, 435-441.	1.8	72
56	The Al-Rn-Mg (R=Gd, Dy, Ho) systems. Part I: experimental investigation. Intermetallics, 2003, 11, 1125-1134.	1.8	23
57	The Al-Rn-Mg (R=Gd, Dy, Ho) systems. Part II: Thermodynamic modelling of the binary and ternary systems. Intermetallics, 2003, 11, 1135-1151.	1.8	89
58	The role of boron lattice expansion in superconducting diborides. Intermetallics, 2003, 11, 1339-1344.	1.8	3
59	ANISOTROPIC THERMAL EXPANSION IN DIBORIDES AS A FUNCTION OF MICRO-STRAIN. International Journal of Modern Physics B, 2003, 17, 812-818.	1.0	4
60	EFFECTS OF THE Al CONTENT IN MgB ₂ : A RAMAN STUDY. International Journal of Modern Physics B, 2003, 17, 505-511.	1.0	2
61	The amplification of the superconducting T _c by combined effect of tuning of the Fermi level and the tensile micro-strain in Al _{1-x} Mg _x B ₂ . Europhysics Letters, 2002, 58, 278-284.	0.7	47
62	Scaling of the critical temperature with the Fermi temperature in diborides. Physical Review B, 2002, 65, .	1.1	83
63	The Al-Er-Mg ternary system Part I: Experimental investigation. Journal of Phase Equilibria and Diffusion, 2002, 23, 29-37.	0.3	28
64	The Al-Er-Mg ternary system Part II: Thermodynamic modeling. Journal of Phase Equilibria and Diffusion, 2002, 23, 38-50.	0.3	53
65	A superconductor made by a metal heterostructure at the atomic limit tuned at the 'shape resonance': MgB ₂ *. Journal of Physics Condensed Matter, 2001, 13, 7383-7390.	0.7	64
66	High T _c superconductivity in a critical range of micro-strain and charge density in diborides. Journal of Physics Condensed Matter, 2001, 13, 11689-11695.	0.7	39