Serena De Negri

List of Publications by Year
in descending order

66 papers	1,743 citations	279487 23 h-index	301761 39 g-index
67 all docs	67 docs citations	67 times ranked	1215 citing authors

#	Article	IF	Citations
1	Bio-corrosion characterization of Mgâ€“Znâ€“X (XÂ=ÂCa, Mn, Si) alloys for biomedical applications. Journal of Materials Science: Materials in Medicine, 2010, 21, 1091-1098.	1.7	129
2	Effect of erbium addition on the corrosion behaviour of Mgâ€“Al alloys. Intermetallics, 2005, 13, 55-60.	1.8	99
3	The Alâ€“Râ€“Mg (R=Gd, Dy, Ho) systems. Part II: Thermodynamic modelling of the binary and ternary systems. Intermetallics, 2003, 11, 1135-1151.	1.8	89
4	Electrochemical behaviour assessment of novel Mg-rich Mgâ€“Alâ€“RE alloys (RE=Ce, Er). Intermetallics, 2006, 14, 1487-1492.	1.8	89
5	Scaling of the critical temperature with the Fermi temperature in diborides. Physical Review B, 2002, 65, .	1.1	83
6	Substitution ofScforMginMgB2: Effects on transition temperature and Kohn anomaly. Physical Review B, 2004, 70, .	1.1	79
7	Influence of the rare earth content on the electrochemical behaviour of Alâ€“Mgâ€“Er alloys. Intermetallics, 2003, 11, 435-441.	1.8	72
8	A superconductor made by a metal heterostructure at the atomic limit tuned at the `shape resonance': MgB2*. Journal of Physics Condensed Matter, 2001, 13, 7383-7390.	0.7	64
9	Phase relationships of the Laâ€“Niâ€“Mg system at 500Â°C from 0 to 66.7at.% Ni. Journal of Alloys and Compounds, 2005, 397, 126-134.	2.8	58
10	The Al-Er-Mg ternary system Part II: Thermodynamic modeling. Journal of Phase Equilibria and Diffusion, 2002, 23, 38-50.	0.3	53
11	The amplification of the superconducting T c by combined effect of tuning of the Fermi level and the tensile micro-strain in Al 1 â^' x Mg x B 2. Europhysics Letters, 2002, 58, 278-284.	0.7	47
12	Microstructure and in vitro degradation performance of Mgâ€“Znâ€“Mn alloys for biomedical application. Journal of Biomedical Materials Research - Part A, 2013, 101A, 704-711.	2.1	46
13	Constitutional properties of the Laâ€“Cuâ€“Mg system at 400Â°C. Journal of Alloys and Compounds, 2007, 427, 134-141.	2.8	43
14	HighTcsuperconductivity in a critical range of micro-strain and charge density in diborides. Journal of Physics Condensed Matter, 2001, 13, 11689-11695.	0.7	39
15	Phase relationships of the Laâ€“Niâ€“Mg system at 500Â°C from 66.7 to 100at.% Ni. Journal of Alloys and Compounds, 2007, 439, 109-113.	2.8	35
16	The Yâ€“Cuâ€“Mg system in the 0â€“66.7at.% Cu concentration range: The isothermal section at 400Â°C. Intermetallics, 2009, 17, 614-621.	1.8	35
17	The isothermal section of the Laâ€“Agâ€“Mg phase diagram at 400ÂÂ°C. Intermetallics, 2011, 19, 671-681.	1.8	34
18	Rare earthâ€“copperâ€–magnesium compounds RECu9Mg2 (RE=Y, Laâ€–Nd, Smâ€–Ho, Yb) with ordered CeNi3-type structure. Journal of Solid State Chemistry, 2006, 179, 3073-3081.	1.4	30

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19	Development of a modular room-temperature hydride storage system for vehicular applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	30
20	Polarâ€Covalent Bonding Beyond the Zintl Picture in Intermetallic Rareâ€Earth Germanides. Chemistry - A European Journal, 2019, 25, 6600-6612.	1.7	29
21	The Al-Er-Mg ternary system Part I: Experimental investigation. Journal of Phase Equilibria and Diffusion, 2002, 23, 29-37.	0.3	28
22	Sc doping of MgB2: the structural and electronic properties of Mg1â^'xScxB2. Journal of Physics and Chemistry of Solids, 2004, 65, 1479-1484.	1.9	28
23	Inhomogeneous 2D linear intergrowth structures among novel Yâ€“Cuâ€“Mg ternary compounds with yttrium/copper equiatomic ratio. Solid State Sciences, 2009, 11, 801-811.	1.5	26
24	New Ternary Germanides La4Mg5Ge6 and La4Mg7Ge6: Crystal Structure and Chemical Bonding. Inorganic Chemistry, 2012, 51, 207-214.	1.9	24
25	The Alâ€“Râ€“Mg (R=Gd, Dy, Ho) systems. Part I: experimental investigation. Intermetallics, 2003, 11, 1125-1134.	1.8	23
26	Crystallochemistry of the novel two-layer RECuMg4 (RE=La, Tb) ternary compounds. Journal of Solid State Chemistry, 2007, 180, 3066-3075.	1.4	23
27	Synthesis and characterization of a novel polystyrene-tethered niobium methoxo species. Its application in the CO2-based carboxylation of methanol to afford dimethyl carbonate. Applied Catalysis A: General, 2010, 387, 113-118.	2.2	22
28	Anti-Mackay Polyicosahedral Clusters in Laâ^'Niâ^'Mg Ternary Compounds: Synthesis and Crystal Structure of the La43Ni17Mg5 New Intermetallic Phase. Inorganic Chemistry, 2009, 48, 11586-11593.	1.9	20
29	Crystal chemical peculiarities of rare earth (R) rich magnesium intermetallic compounds in Râ€“Tâ€“Mg (T) Tj ETQq1 1 0.784314 rgBT	0.2	20
30	Synthesis and Crystallochemical Characterisation of the Intermetallic Phases La(Ag_xMg_{1â€“x})₁₂ (0.11 â‰¤ x â‰¤ 0.21), LaAg_{4+x}Mg_{2â€“x} (â€“0.15 â‰¤ x â‰¤ 1.05) and LaAg_{2+x}Mg_{2â€“x} (0 < x â‰¤ 0.45). European Journal of Inorganic Chemistry, 2012, 2012, 4811-4821.	1.0	18
31	The 400ÂÂ°C Isothermal Section of the La-Co-Mg Ternary System. Journal of Phase Equilibria and Diffusion, 2014, 35, 377-383.	0.5	18
32	The R2Pd3Ge5 (RÂ=ÂLaâ€“Nd, Sm) germanides: synthesis, crystal structure and symmetry reduction. Structural Chemistry, 2016, 27, 1693-1701.	1.0	17
33	The ternary system Ybâ€“Cuâ€“Mg: Isothermal section at 400Â°C in the range from 0 to 67at.% Cu. Intermetallics, 2008, 16, 1285-1291.	1.8	16
34	Study on Laâ€“Mg based ternary system for hydrogen storage. Journal of Alloys and Compounds, 2013, 580, S159-S162.	2.8	16
35	Solid state interactions in the Laâ€“Auâ€“Mg system: phase equilibria, novel compounds and chemical bonding. Dalton Transactions, 2020, 49, 12056-12067.	1.6	15
36	Tb2Ni2Mg3: a new structure type derived from the Ru3Al2B2type. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, i13-i16.	0.4	14

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37	3D [Agâ€“Mg] polyanionic frameworks in the La4Ag10Mg3 and La4Ag10.3Mg12 new ternary compounds. Journal of Solid State Chemistry, 2010, 183, 2995-3001.	1.4	14
38	The isothermal section of the Laâ€“Siâ€“Mg system at 500Âå~C. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 44-49.	0.7	13
39	Phase equilibria in the Laâ€“Mgâ€“Ge system at 500Â°C and crystal structure of the new ternary compounds La11Mg2Ge7 and LaMg3â^'xGe2. Journal of Solid State Chemistry, 2014, 218, 184-195.	1.4	13
40	Vacancy Ordering as a Driving Factor for Structural Changes in Ternary Germanides: The New R2Zn1â€“xGe6Series of Polar Intermetallics (R = Rare-Earth Metal). Inorganic Chemistry, 2015, 54, 2411-2424.	1.9	13
41	Lu5Pd4Ge8 and Lu3Pd4Ge4: Two More Germanides among Polar Intermetallics. Crystals, 2018, 8, 205.	1.0	13
42	Yb(Cu,T)5 and Yb(Cu,T)4.5 solid solutions (T=Ag, Au, Pd). Intermetallics, 2008, 16, 399-405.	1.8	12
43	Gd(Mn1â^'xInx)2: crystal structure and physical properties. Journal of Alloys and Compounds, 2004, 365, 58-67.	2.8	11
44	Controlling the Critical Temperature in Mg1â^'x Al x B2. Journal of Superconductivity and Novel Magnetism, 2007, 20, 495-501.	0.8	11
45	The novel intermetallic phases TbNiMg and Tb4+xNi2Mg3â^'x (xÂ=Â0.2): Synthesis, crystal structure and peculiarities. Intermetallics, 2010, 18, 719-724.	1.8	11
46	A new glance on R₂MGe₆ (R = rare earth metal, M = another metal) compounds. An experimental and theoretical study of R₂PdGe₆germanides. Dalton Transactions, 2017, 46, 14021-14033.	1.6	11
47	La₂Pd₃Ge₅ and Nd₂Pd₃Ge₅ Compounds: Chemical Bonding and Physical Properties. Inorganic Chemistry, 2021, 60, 3345-3354.	1.9	11
48	Isothermal section of the Laâ€“Niâ€“Zn system from 16.7 to 100at.% La at 400Â°C. Intermetallics, 2008, 16, 168-178.	1.8	10
49	The Mgâ€“Znâ€“Si system: Constitutional properties and phase formation during mechanical alloying. Intermetallics, 2010, 18, 1722-1728.	1.8	10
50	New Quasicrystal Approximant in the Scâ€“Pd System: From Topological Data Mining to the Bench. Chemistry of Materials, 2020, 32, 1064-1079.	3.2	10
51	Crystal Structure Investigation of REâ€“Niâ€“Zn Ternary Compounds (RE = La, Ce, Tb). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 482-489.	0.6	9
52	Isothermal section of the La-Mg-Sn system at 500 Â°C and crystal structure of the new ternary stannide LaMgSn 2. Journal of Solid State Chemistry, 2017, 248, 32-39.	1.4	8
53	Ferromagnetic spin fluctuations in quasi-2Dâ€”EuCu9Mg2. Journal of Alloys and Compounds, 2010, 508, 28-36.	2.8	7
54	Yb_{9+x}CuMg_{4â€“x} (x = 0.034): A Îº-Phase Formed by Lanthanoids. Inorganic Chemistry, 2016, 55, 8174-8183.	1.9	7

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55	X-ray Absorption Near Edge Structure (XANES) microscopy of phase separation in superconducting Mg1â^'xScxB2. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 717-719.	1.5	5
56	Synthesis, crystal structure and physical properties of Yb2Pd3Ge5. Journal of Alloys and Compounds, 2019, 783, 601-607.	2.8	5
57	ANISOTROPIC THERMAL EXPANSION IN DIBORIDES AS A FUNCTION OF MICRO-STRAIN. International Journal of Modern Physics B, 2003, 17, 812-818.	1.0	4
58	Anomalous Thermal Expansion in Superconducting Mg1â^' x Al x B2 System. Journal of Superconductivity and Novel Magnetism, 2005, 18, 737-741.	0.5	4
59	Crystal structures of the new ternary stannides La3Mg4â^'Sn2+ and LaMg3â^'Sn2. Journal of Solid State Chemistry, 2016, 233, 407-414.	1.4	4
60	The RMgSn₂ Series of Compounds (R = Rare Earth Metal): Synthesis, Crystal Structure, and Magnetic Measurements. European Journal of Inorganic Chemistry, 2017, 2017, 3040-3047.	1.0	4
61	The role of boron lattice expansion in superconducting diborides. Intermetallics, 2003, 11, 1339-1344.	1.8	3
62	Unpredicted but It Exists: Trigonal Sc₂Ru with a Significant Metalâ€“Metal Charge Transfer. Inorganic Chemistry, 2021, 60, 10084-10088.	1.9	3
63	EFFECTS OF THE Al CONTENT IN MgB2: A RAMAN STUDY. International Journal of Modern Physics B, 2003, 17, 505-511.	1.0	2
64	T c as a Function of Electron Doping in Mg10B2 Using Sc for Mg Substitution. Journal of Superconductivity and Novel Magnetism, 2005, 18, 667-670.	0.5	2
65	Spinel type twins of the new cubic Er6Zn23Ge compound. Zeitschrift Fur Kristallographie - Crystalline Materials, 2016, 231, 71-77.	0.4	1
66	Advances in doping MgB2: tuning the Fermi level to theâ€œshape resonanceâ€•by Sc substitution. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1832-1835.	0.8	0