

Jaromír Wasserbauer

List of Publications by Year in descending order

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51
papers

1,028
citations

471371

17
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434063

31
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54
all docs

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docs citations

54
times ranked

1347
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Nd ³⁺ in CoFe ₂ O ₄ spinel ferrite nanoparticles on cation distribution, structural and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 399, 109-117.	1.0	137
2	Effect of gelâ€“space ratio and microstructure on strength of hydrating cementitious materials: An engineering micromechanics approach. <i>Cement and Concrete Research</i> , 2013, 45, 55-68.	4.6	106
3	Spectral characterization and comparison of humic acids isolated from some European lignites. <i>Fuel</i> , 2018, 213, 123-132.	3.4	97
4	Effects of annealing temperature variation on the evolution of structural and magnetic properties of NiFe ₂ O ₄ nanoparticles synthesized by starch-assisted solâ€“gel auto-combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 439-447.	1.0	61
5	The influence of structure order on the kinetics of dehydroxylation of kaolinite. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2793-2799.	2.8	49
6	Cation Migration-Induced Crystal Phase Transformation in Copper Ferrite Nanoparticles and Their Magnetic Property. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 759-769.	0.8	41
7	Comparison of Electrochemical Methods for the Evaluation of Cast AZ91 Magnesium Alloy. <i>Materials</i> , 2016, 9, 925.	1.3	40
8	The Effect of Heat Treatment on Properties of Niâ€“P Coatings Deposited on a AZ91 Magnesium Alloy. <i>Coatings</i> , 2019, 9, 461.	1.2	40
9	Influence of the Composition of the Hankâ€“s Balanced Salt Solution on the Corrosion Behavior of AZ31 and AZ61 Magnesium Alloys. <i>Metals</i> , 2017, 7, 465.	1.0	37
10	Improvement of electrochemical corrosion characteristics of AZ61 magnesium alloy with unconventional fluoride conversion coatings. <i>Surface and Coatings Technology</i> , 2019, 357, 638-650.	2.2	35
11	Structural, Cation Distribution, and Magnetic Properties of CoFe ₂ O ₄ Spinel Ferrite Nanoparticles Synthesized Using a Starch-Assisted Solâ€“Gel Auto-Combustion Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1851-1861.	0.8	34
12	Magnetic Properties of Dysprosium-Doped Cobalt Ferrite Nanoparticles Synthesized by Starch-Assisted Sol-Gel Auto-combustion Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2097-2107.	0.8	30
13	Magnetic Properties of ZnFe ₂ O ₄ Nanoparticles Synthesized by Starch-Assisted Solâ€“Gel Auto-combustion Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1417-1423.	0.8	30
14	The formation of feldspar strontian (SrAl ₂ Si ₂ O ₈) via ceramic route: Reaction mechanism, kinetics and thermodynamics of the process. <i>Ceramics International</i> , 2016, 42, 8170-8178.	2.3	27
15	Preparation and Characterization of Zinc Materials Prepared by Powder Metallurgy. <i>Metals</i> , 2017, 7, 396.	1.0	25
16	Characterization of Electroless Niâ€“P Coating Prepared on a Wrought ZE10 Magnesium Alloy. <i>Coatings</i> , 2018, 8, 96.	1.2	23
17	Characterization of Powder Metallurgy Processed Pure Magnesium Materials for Biomedical Applications. <i>Metals</i> , 2017, 7, 461.	1.0	20
18	Degradation of unconventional fluoride conversion coating on AZ61 magnesium alloy in SBF solution. <i>Surface and Coatings Technology</i> , 2019, 380, 125012.	2.2	16

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19	Improvement of AZ91 Alloy Corrosion Properties by Duplex Ni-P Coating Deposition. <i>Materials</i> , 2020, 13, 1357.	1.3	16
20	The Effect of Crystallization and Phase Transformation on the Mechanical and Electrochemical Corrosion Properties of Ni-P Coatings. <i>Coatings</i> , 2021, 11, 447.	1.2	14
21	The spectrometric characterization of lipids extracted from lignite samples from various coal basins. <i>Organic Geochemistry</i> , 2016, 95, 34-40.	0.9	12
22	Characterization and Corrosion Properties of Fluoride Conversion Coating Prepared on AZ31 Magnesium Alloy. <i>Coatings</i> , 2021, 11, 675.	1.2	12
23	Solid-state synthesis of SrY ₂ O ₄ and SrSm ₂ O ₄ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 181-194.	2.0	11
24	Unconventional fluoride conversion coating preparation and characterization. <i>Anti-Corrosion Methods and Materials</i> , 2017, 64, 613-619.	0.6	11
25	Structure and growth kinetic of unconventional fluoride conversion coating prepared on wrought AZ61 magnesium alloy. <i>Surface and Coatings Technology</i> , 2020, 399, 126101.	2.2	11
26	Effect of Pr ³⁺ Substitution on Structural and Magnetic Properties of CoFe ₂ O ₄ Spinel Ferrite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 241-248.	0.8	10
27	Preparation of dehydroxylated and delaminated talc: Meta-talc. <i>Ceramics International</i> , 2013, 39, 9055-9061.	2.3	9
28	Structural and Magnetic Properties of CoFe _{2-x} Gd _x O ₄ (0.0 ≤ x ≤ 0.1) Spinel Ferrite Nanoparticles Synthesized by Starch-Assisted Sol-Gel Auto-combustion Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1797-1806.	0.8	7
29	Improvement of bio-compatible AZ61 magnesium alloy corrosion resistance by fluoride conversion coating. <i>Koroze A Ochrana Materialu</i> , 2016, 60, 132-138.	0.4	7
30	The Counteracting Effects of Capillary Porosity and of Unhydrated Clinker Grains on the Macroscopic Strength of Hydrating Cement Paste—A Multiscale Model. , 2013, , .		6
31	Preparation, kinetics of sinter-crystallization and properties of hexagonal strontium-yttrate-silicate apatite phase: SrY ₄ [SiO ₄] ₃ O. <i>Ceramics International</i> , 2015, 41, 1779-1795.	2.3	6
32	The characterization of South Moravian lignite in its natural and treated forms using thermal degradation methods. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 83-91.	2.6	5
33	Biodegradable polyhydroxybutyrate as a polyol for elastomeric polyurethanes. <i>Chemical Papers</i> , 2012, 66, .	1.0	4
34	A practical comparison of photon correlation and cross-correlation spectroscopy in nanoparticle and microparticle size evaluation. <i>Colloid and Polymer Science</i> , 2017, 295, 67-74.	1.0	4
35	Characterization of Brittle Phase in Magnesium Based Materials Prepared by Powder Metallurgy. <i>Key Engineering Materials</i> , 2018, 784, 61-66.	0.4	4
36	Corrosion behavior of wrought magnesium alloys AZ31 and AZ61 in Hank's solution. <i>Koroze A Ochrana Materialu</i> , 2016, 60, 101-106.	0.4	3

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37	Evolution of microstructure and electrochemical corrosion characteristics of cold compacted magnesium. <i>Koroze A Ochrana Materialu</i> , 2017, 61, 123-130.	0.4	3
38	Synthesis of poly(vinyl alcohol) â€” hydroxyapatite composites and characterization of their bioactivity. <i>Open Chemistry</i> , 2013, 11, 1403-1411.	1.0	2
39	Reduction of Efflorescence in the Alkali Activated Systems. <i>Advanced Materials Research</i> , 0, 1000, 318-321.	0.3	2
40	Investigation of Ni-P coatings on AZ91 cast magnesium alloy. , 2019, , .		2
41	Strength Evolution of Hydrating Cement Pastes: the Counteracting Effects of Capillary Porosity and Unhydrated Clinker Reinforcements. , 2013, , .		1
42	Electrochemical Corrosion Behavior of Pure Mg Processed by Powder Metallurgy. <i>Coatings</i> , 2021, 11, 986.	1.2	1
43	Electroless Deposition of Ni-P/SiO₂ Composite Coating. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2016, 64, 1459-1464.	0.2	1
44	Effect of Quench Environment on the Conversion Coatings on Magnesium Alloy AZ91. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2018, 66, 203-210.	0.2	1
45	Microstructural characterization and wear behavior of WC-CoCr coating on AZ91 magnesium alloy. , 2019, , .		1
46	New Method for (Nano)Micro-Characterization of Materials - Correlative Microscopy. <i>Advanced Materials Research</i> , 0, 1000, 265-268.	0.3	0
47	surface pre-treatment of aluminum alloys improving surface adhesive properties. , 2019, , .		0
48	ZE10 magnesium alloy corrosion properties improvement by unconventional fluoride conversion coating. , 2019, , .		0
49	Improving the corrosion resistance of AZ31 magnesium alloy by preparing hydroxyapatite with a superhydrophobized surface. , 2021, , .		0
50	Comparative study of fluoride conversion coating structure on two types of bulk magnesium materials. , 2021, , .		0
51	The Role of Humic Acid in the Corrosion of AZ31 Magnesium alloy. , 2021, , .		0