

Abhijit Roy

List of Publications by Year in descending order

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52
papers

1,800
citations

331259

21
h-index

264894

42
g-index

53
all docs

53
docs citations

53
times ranked

2543
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of strontium-substitution in sputter deposited calcium phosphate coatings on the rate of corrosion of magnesium alloys. <i>Surface and Coatings Technology</i> , 2021, 421, 127446.	2.2	14
2	In-vivo efficacy of biodegradable ultrahigh ductility Mg-Li-Zn alloy tracheal stents for pediatric airway obstruction. <i>Communications Biology</i> , 2020, 3, 787.	2.0	12
3	Subglottic Stenosis: Development of a Clinically Relevant Endoscopic Animal Model. <i>Otolaryngology - Head and Neck Surgery</i> , 2020, 162, 905-913.	1.1	1
4	Effect of Lithium and Aluminum on the Mechanical Properties, <i>In Vivo</i> and <i>In Vitro</i> Degradation, and Toxicity of Multiphase Ultrahigh Ductility Mg-Li-Al-Zn Quaternary Alloys for Vascular Stent Application. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1950-1964.	2.6	10
5	Corrosion and bone healing of Mg-Y-Zn-Zr-Ca alloy implants: Comparative in vivo study in a non-immobilized rat femoral fracture model. <i>Journal of Biomaterials Applications</i> , 2019, 33, 1178-1194.	1.2	16
6	<i>In Vitro</i> Biodegradation and <i>In Vivo</i> Biocompatibility of Forsterite Bio-Ceramics: Effects of Strontium Substitution. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 530-543.	2.6	18
7	In Vitro and in Vivo Evaluation of Multiphase Ultrahigh Ductility Mg-Li-Zn Alloys for Cardiovascular Stent Application. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 919-932.	2.6	22
8	Cross-linked enzyme aggregates of alginate lyase: A systematic engineered approach to controlled degradation of alginate hydrogel. <i>International Journal of Biological Macromolecules</i> , 2018, 115, 176-184.	3.6	25
9	Surface mediated non-viral gene transfection on titanium substrates using polymer electrolyte and nanostructured silicate substituted calcium phosphate pDNA (NanoSiCaPs) composites. <i>Materials Today Communications</i> , 2018, 16, 169-173.	0.9	5
10	Biomimetic Rotated Lamellar Plywood Motifs by Additive Manufacturing of Metal Alloy Scaffolds for Bone Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 648-657.	2.6	17
11	Programmed Platelet-Derived Growth Factor-BB and Bone Morphogenetic Protein-2 Delivery from a Hybrid Calcium Phosphate/Alginate Scaffold. <i>Tissue Engineering - Part A</i> , 2017, 23, 1382-1393.	1.6	41
12	Effect of zinc oxide doping on in vitro degradation of magnesium silicate bioceramics. <i>Materials Letters</i> , 2017, 207, 100-103.	1.3	18
13	Murine osteoblastic and osteoclastic differentiation on strontium releasing hydroxyapatite forming cements. <i>Materials Science and Engineering C</i> , 2016, 63, 429-438.	3.8	17
14	Synthesis, characterization, and in-vitro cytocompatibility of amorphous β -tricalcium magnesium phosphate ceramics. <i>Materials Science and Engineering C</i> , 2016, 67, 636-645.	3.8	11
15	Magnesium Phosphate Cement Systems for Hard Tissue Applications: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1067-1083.	2.6	155
16	Nanostructured silicate substituted calcium phosphate (NanoSiCaPs) nanoparticles as efficient calcium phosphate based non-viral gene delivery systems. <i>Materials Science and Engineering C</i> , 2016, 69, 486-495.	3.8	18
17	Binder-jetting 3D printing and alloy development of new biodegradable Fe-Mn-Ca/Mg alloys. <i>Acta Biomaterialia</i> , 2016, 45, 375-386.	4.1	166
18	Study of hMSC proliferation and differentiation on Mg and Mg-Sr containing biphasic β -tricalcium phosphate and amorphous calcium phosphate ceramics. <i>Materials Science and Engineering C</i> , 2016, 64, 219-228.	3.8	19

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19	Porous calcium phosphate-poly (lactic-co-glycolic) acid composite bone cement: A viable tunable drug delivery system. <i>Materials Science and Engineering C</i> , 2016, 59, 92-101.	3.8	35
20	Systematic Assessment of Synthesized Tri-magnesium Phosphate Powders (Amorphous, Semi-crystalline) Technology, 2015, 31, 437-444.	5.6	25
21	One-step synthesis of fluorescently labelled, single-walled carbon nanotubes. <i>Chemical Communications</i> , 2015, 51, 17233-17236.	2.2	2
22	Synthesis, Osteoblast, and Osteoclast Viability of Amorphous and Crystalline Tri-Magnesium Phosphate. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 52-63.	2.6	40
23	Direct Writing of Polymeric Coatings on Magnesium Alloy for Tracheal Stent Applications. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1158-1165.	1.3	20
24	MC3T3-E1 proliferation and differentiation on biphasic mixtures of Mg substituted β -tricalcium phosphate and amorphous calcium phosphate. <i>Materials Science and Engineering C</i> , 2014, 45, 589-598.	3.8	24
25	A study of strontium doped calcium phosphate coatings on AZ31. <i>Materials Science and Engineering C</i> , 2014, 40, 357-365.	3.8	31
26	Biodegradable poly(lactide-co-glycolide) coatings on magnesium alloys for orthopedic applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 85-96.	1.7	92
27	Corrosion protection and improved cytocompatibility of biodegradable polymeric layer-by-layer coatings on AZ31 magnesium alloys. <i>Acta Biomaterialia</i> , 2013, 9, 8704-8713.	4.1	77
28	A layer-by-layer approach to natural polymer-derived bioactive coatings on magnesium alloys. <i>Acta Biomaterialia</i> , 2013, 9, 8690-8703.	4.1	144
29	Novel alginate based coatings on Mg alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1703-1710.	1.7	21
30	Aqueous deposition of calcium phosphates and silicate substituted calcium phosphates on magnesium alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1695-1702.	1.7	17
31	Microstructure of Mg-Zn-Ca thin film derived by pulsed laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1690-1694.	1.7	7
32	Novel sol-gel derived calcium phosphate coatings on Mg4Y alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1679-1689.	1.7	47
33	Structure and thermal stability of biodegradable Mg-Zn-Ca based amorphous alloys synthesized by mechanical alloying. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1637-1643.	1.7	57
34	Organometallics Meet Colloid Chemistry: A Case Study in Three Phases Based on Molecular Carbonyl Precursors Containing Zinc and Manganese. <i>Journal of the American Chemical Society</i> , 2007, 129, 371-375.	6.6	38
35	Structure-Property-Function Relationships in Nanoscale Oxide Sensors: A Case Study Based on Zinc Oxide. <i>Advanced Functional Materials</i> , 2007, 17, 1385-1391.	7.8	103
36	Chemical Vapor Synthesis of Size-Selected Zinc Oxide Nanoparticles. <i>Small</i> , 2005, 1, 540-552.	5.2	144

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37	First Preparation of Nanocrystalline Zinc Silicate by Chemical Vapor Synthesis Using an Organometallic Single-Source Precursor. <i>Chemistry - A European Journal</i> , 2004, 10, 1565-1575.	1.7	86
38	Preparation and characterization of nanocrystalline disordered lithium ferrite by citrate precursor method. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 270, 224-229.	1.0	66
39	From molecules to metastable solids: solid-state and chemical vapour syntheses (CVS) of nanocrystalline ZnO and Zn. <i>Comptes Rendus Chimie</i> , 2003, 6, 273-281.	0.2	20
40	Mössbauer studies on Zn-substituted iron molybdate. <i>Materials Research Bulletin</i> , 2002, 37, 2383-2392.	2.7	4
41	A New Silicon-Doped Cation-Deficient Thiospinel, $\text{Cu}_{5.52(8)}\text{Si}_{1.04(8)}\text{Fe}_{1.44}\text{Sn}_{12}\text{S}_{32}$: Crystal Structure, Mössbauer Studies, and Electrical Properties. <i>Journal of Solid State Chemistry</i> , 2001, 161, 327-331.	1.4	4
42	Single crystal structure and Mössbauer studies of a new cation-deficient thiospinel: $\text{Cu}_{5.47}\text{Fe}_{2.9}\text{Sn}_{13.1}\text{S}_{32}$. <i>Materials Research Bulletin</i> , 2001, 36, 2429-2435.	2.7	12
43	Magnetic ordering in $\text{Fe}_{2-x}\text{Zn}_x\text{MoO}_4$ ($x=0.1$) spinel. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 223, 39-49.	1.0	14
44	Size dependent magnetic phase of nanocrystalline $\text{Co}_{0.2}\text{Zn}_{0.8}\text{Fe}_2\text{O}_4$. <i>Journal of Applied Physics</i> , 2001, 90, 4138-4142.	1.1	27
45	Mössbauer studies on titanium substituted molybdenum ferrite. <i>Solid State Communications</i> , 2000, 114, 143-148.	0.9	13
46	Role of ferric ions in the magnetic interactions of substituted iron molybdate. <i>Journal of Applied Physics</i> , 2000, 87, 7133-7135.	1.1	1
47	Cluster-glass behaviour of the substituted molybdenum ferrite: a magnetic and Mössbauer study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9963-9972.	0.7	5
48	Magnetic studies on Zn-substituted molybdenum ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 202, 359-364.	1.0	6
49	Electrical and Magnetic Characterization of Rh_2O_3 -I. <i>Materials Research Bulletin</i> , 1998, 33, 547-551.	2.7	6
50	Studies on Some Titanium-Substituted Fe_2MoO_4 Spinel Oxides. <i>Journal of Solid State Chemistry</i> , 1998, 140, 56-61.	1.4	13
51	Magnetic properties of $\text{Fe}_2\text{Mo}_{1-x}\text{Ti}_x\text{O}_4$. <i>Solid State Communications</i> , 1997, 103, 269-272.	0.9	14
52	Studies on Compensated Cu-Cr-Al Spinel Oxide Semiconductors. <i>Journal of Solid State Chemistry</i> , 1995, 120, 388-390.	1.4	0