

Ramaswamy Narayanan

List of Publications by Year in descending order

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46
papers

2,147
citations

279798

23
h-index

243625

44
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47
all docs

47
docs citations

47
times ranked

2444
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium phosphate-based coatings on titanium and its alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 279-299.	3.4	283
2	Ion implantation of titanium based biomaterials. Progress in Materials Science, 2011, 56, 1137-1177.	32.8	243
3	Surface modification of titanium and titanium alloys by ion implantation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 581-591.	3.4	148
4	Electrochemical surface modification of titanium in dentistry. Dental Materials Journal, 2009, 28, 20-36.	1.8	137
5	Microstructural changes during welding and subsequent heat treatment of 18Ni (250-grade) maraging steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 43-51.	5.6	91
6	Phosphoric acid anodization of Ti-6Al-4V - Structural and corrosion aspects. Corrosion Science, 2007, 49, 542-558.	6.6	90
7	Electrochemical and semiconducting properties of thin passive film formed on titanium in chloride medium at various pH conditions. Thin Solid Films, 2016, 598, 260-270.	1.8	85
8	Solution combustion synthesis and characterization of strontium substituted hydroxyapatite nanocrystals. Powder Technology, 2014, 253, 129-137.	4.2	84
9	Point defect model and corrosion of anodic oxide coatings on Ti-6Al-4V. Corrosion Science, 2008, 50, 1521-1529.	6.6	82
10	Electrochemical nano-grained calcium phosphate coatings on Ti-6Al-4V for biomaterial applications. Scripta Materialia, 2007, 56, 229-232.	5.2	76
11	Ageing of forged superaustenitic stainless steel: Precipitate phases and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 535, 99-107.	5.6	68
12	TiO ₂ nanotubes from stirred glycerol/NH ₄ F electrolyte: Roughness, wetting behavior and adhesion for implant applications. Materials Chemistry and Physics, 2009, 117, 460-464.	4.0	67
13	Influence of crystallite size and surface morphology on electrochemical properties of annealed TiO ₂ nanotubes. Applied Surface Science, 2015, 355, 1245-1253.	6.1	63
14	Anodic TiO ₂ nanotubes from stirred baths: hydroxyapatite growth & osteoblast responses. Materials Chemistry and Physics, 2011, 125, 510-517.	4.0	45
15	Hydroxy apatite coatings on Ti-6Al-4V from seashell. Surface and Coatings Technology, 2006, 200, 4720-4730.	4.8	44
16	Direct nanocrystalline hydroxyapatite formation on titanium from ultrasonated electrochemical bath at physiological pH. Materials Science and Engineering C, 2008, 28, 1265-1270.	7.3	44
17	Optimization of process parameters for solution combustion synthesis of Strontium substituted Hydroxyapatite nanocrystals using Design of Experiments approach. Powder Technology, 2015, 271, 167-181.	4.2	40
18	Characterization, luminescence and EPR investigations of Eu ²⁺ activated strontium aluminate phosphor. Journal of Non-Crystalline Solids, 2009, 355, 2491-2495.	3.1	36

#	ARTICLE	IF	CITATIONS
19	Sr, Mg, and Co Substituted Hydroxyapatite Coating on TiO ₂ /Nanotubes Formed by Electrochemical Methods. <i>Advanced Science Letters</i> , 2016, 22, 482-487.	0.2	33
20	Nanocrystalline hydroxyapatite coatings from ultrasonated electrolyte: Preparation, characterization, and osteoblast responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 1053-1060.	4.0	31
21	Surface characterization of alkali- and heat-treated Ti with or without prior acid etching. <i>Applied Surface Science</i> , 2012, 258, 4377-4382.	6.1	28
22	Investigation on EDM machining of Ti6Al4V with negative polarity brass electrode. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1824-1831.	4.7	26
23	Tensile properties and fracture toughness of 18Ni (250 grade) maraging steel weldments. <i>Science and Technology of Welding and Joining</i> , 2000, 5, 329-337.	3.1	24
24	Synthesis and corrosion of functionally gradient TiO ₂ and hydroxyapatite coatings on Ti-6Al-4V. <i>Materials Chemistry and Physics</i> , 2007, 106, 406-411.	4.0	24
25	Preparation and characteristics of nano-grained calcium phosphate coatings on titanium from ultrasonated bath at acidic pH. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 85B, 231-239.	3.4	23
26	Accelerator based synthesis of hydroxyapatite by MeV ion implantation. <i>Thin Solid Films</i> , 2010, 518, 3160-3163.	1.8	23
27	Synthesis of anodic titania nanotubes in Na ₂ SO ₄ /NaF electrolyte: A comparison between anodization time and specimens with biomaterial based approaches. <i>Thin Solid Films</i> , 2013, 540, 23-30.	1.8	23
28	Crystallinity of Anodic TiO ₂ Nanotubes and Bioactivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4910-4918.	0.9	22
29	Stress corrosion cracking of maraging steel weldments. <i>Materials Science and Technology</i> , 2003, 19, 375-381.	1.6	21
30	Anodic oxide coatings on Ti-6Al-4V produced from electrolyte containing Ca and P - Corrosion aspects. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 475-479.	2.9	21
31	Anodic TiO ₂ from stirred Na ₂ SO ₄ /NaF electrolytes: Effect of applied voltage and stirring. <i>Materials Letters</i> , 2009, 63, 2003-2006.	2.6	18
32	<sc>Ti-9Mn</sc>-type alloy exhibits better osteogenicity than <sc>Ti-15Mn</sc> alloy in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 2154-2161.	3.4	17
33	In vitro bioactivity evaluation of nano- and micro-crystalline anodic TiO ₂ : HA formation, cellular affinity and organ culture. <i>Materials Science and Engineering C</i> , 2012, 32, 2516-2522.	7.3	15
34	Structure and Properties of Self-Organized TiO ₂ Nanotubes from Stirred Baths. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2008, 39, 493-499.	2.1	12
35	Influence of Intermetallic Precipitates on Pitting Corrosion of High Mo Superaustenitic Stainless Steel. <i>Transactions of the Indian Institute of Metals</i> , 2015, 68, 267-279.	1.5	11
36	Synthesis, corrosion and wear of anodic oxide coatings on Ti-6Al-4V. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 779-786.	3.6	10

#	ARTICLE	IF	CITATIONS
37	Improved corrosion protection of titanium implant material by crystallographic texturing of Sr doped calcium phosphate electrodeposits. Thin Solid Films, 2019, 675, 115-121.	1.8	10
38	Corrosion properties of anodic oxide coatings on Ti-6Al-4V in simulated body solution. Transactions of the Institute of Metal Finishing, 2006, 84, 134-140.	1.3	7
39	Effect of solution annealing on structure and properties of high Mo superaustenitic stainless steel castings. International Journal of Cast Metals Research, 2012, 25, 287-295.	1.0	6
40	Solubility of Nitrogen in Superaustenitic Stainless Steels During Air Induction Melting. Journal of Materials Engineering and Performance, 2013, 22, 964-973.	2.5	5
41	Beneficial effect of CeO ₂ on the corrosion behaviour of AA2219 squeeze cast composites – An experimental investigation. Materials Letters, 2021, 297, 129937.	2.6	4
42	Structure and Corrosion of High Voltage Anodic Oxide Coatings on Ti6Al4V Biomaterial. Transactions of the Indian Institute of Metals, 2018, 71, 2275-2283.	1.5	3
43	Effect of magnetic field on the electrodeposition of nickel. , 2012, , .		2
44	Corrosion of anodic TiO coatings on Ti-6Al-4V in simulated body fluid. Journal of Biomedical Materials Research - Part A, 2008, 86A, 502-509.	4.0	1
45	Nanomaterials for Medical and Dental Applications. Journal of Nanomaterials, 2015, 2015, 1-2.	2.7	1
46	Synthesis of self-ordered titanium oxide nanotubes by anodization of titanium. , 2012, , .		0