

# Ramaswamy Narayanan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5431810/publications.pdf>

Version: 2024-02-01

46  
papers

2,147  
citations

279798

23  
h-index

243625

44  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2444  
citing authors

#	ARTICLE	IF	CITATIONS
1	<sc>Ti-9Mn</sc>-type alloy exhibits better osteogenicity than <sc>Ti-15Mn</sc> alloy in vitro. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 2154-2161.	3.4	17
2	Beneficial effect of CeO <sub>2</sub> on the corrosion behaviour of AA2219 squeeze cast composites – An experimental investigation. Materials Letters, 2021, 297, 129937.	2.6	4
3	Investigation on EDM machining of Ti6Al4V with negative polarity brass electrode. Materials and Manufacturing Processes, 2019, 34, 1824-1831.	4.7	26
4	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
5	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
6	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
7	Sr, Mg, and Co Substituted Hydroxyapatite Coating on TiO <sub>2</sub> Nanotubes Formed by Electrochemical Methods. Advanced Science Letters, 2016, 22, 482-487.	0.2	33
8	Nanomaterials for Medical and Dental Applications. Journal of Nanomaterials, 2015, 2015, 1-2.	2.7	1
9	Influence of crystallite size and surface morphology on electrochemical properties of annealed TiO <sub>2</sub> nanotubes. Applied Surface Science, 2015, 355, 1245-1253.	6.1	63
10	Influence of Intermetallic Precipitates on Pitting Corrosion of High Mo Superaustenitic Stainless Steel. Transactions of the Indian Institute of Metals, 2015, 68, 267-279.	1.5	11
11	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
12	Solution combustion synthesis and characterization of strontium substituted hydroxyapatite nanocrystals. Powder Technology, 2014, 253, 129-137.	4.2	84
13	Solubility of Nitrogen in Superaustenitic Stainless Steels During Air Induction Melting. Journal of Materials Engineering and Performance, 2013, 22, 964-973.	2.5	5
14	Synthesis of anodic titania nanotubes in Na <sub>2</sub> SO <sub>4</sub> /NaF electrolyte: A comparison between anodization time and specimens with biomaterial based approaches. Thin Solid Films, 2013, 540, 23-30.	1.8	23
15	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
16	Effect of magnetic field on the electrodeposition of nickel. , 2012, , .		2
17	Surface characterization of alkali- and heat-treated Ti with or without prior acid etching. Applied Surface Science, 2012, 258, 4377-4382.	6.1	28
18	In vitro bioactivity evaluation of nano- and micro-crystalline anodic TiO <sub>2</sub> : HA formation, cellular affinity and organ culture. Materials Science and Engineering C, 2012, 32, 2516-2522.	7.3	15

#	ARTICLE	IF	CITATIONS
19	Synthesis of self-ordered titanium oxide nanotubes by anodization of titanium. , 2012, , .		0
20	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
21	Anodic TiO <sub>2</sub> nanotubes from stirred baths: hydroxyapatite growth & osteoblast responses. Materials Chemistry and Physics, 2011, 125, 510-517.	4.0	45
22	Ion implantation of titanium based biomaterials. Progress in Materials Science, 2011, 56, 1137-1177.	32.8	243
23	Crystallinity of Anodic TiO <sub>2</sub> Nanotubes and Bioactivity. Journal of Nanoscience and Nanotechnology, 2011, 11, 4910-4918.	0.9	22
24	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
25	Accelerator based synthesis of hydroxyapatite by MeV ion implantation. Thin Solid Films, 2010, 518, 3160-3163.	1.8	23
26	TiO <sub>2</sub> nanotubes from stirred glycerol/NH <sub>4</sub> F electrolyte: Roughness, wetting behavior and adhesion for implant applications. Materials Chemistry and Physics, 2009, 117, 460-464.	4.0	67
27	Anodic TiO <sub>2</sub> from stirred Na <sub>2</sub> SO <sub>4</sub> /NaF electrolytes: Effect of applied voltage and stirring. Materials Letters, 2009, 63, 2003-2006.	2.6	18
28	Characterization, luminescence and EPR investigations of Eu <sup>2+</sup> activated strontium aluminate phosphor. Journal of Non-Crystalline Solids, 2009, 355, 2491-2495.	3.1	36
29	Electrochemical surface modification of titanium in dentistry. Dental Materials Journal, 2009, 28, 20-36.	1.8	137
30	Structure and Properties of Self-Organized TiO <sub>2</sub> Nanotubes from Stirred Baths. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 493-499.	2.1	12
31	Corrosion of anodic TiO coatings on Tiâ€“6Alâ€“4V in simulated body fluid. Journal of Biomedical Materials Research - Part A, 2008, 86A, 502-509.	4.0	1
32	Nanocrystalline hydroxyapatite coatings from ultrasonated electrolyte: Preparation, characterization, and osteoblast responses. Journal of Biomedical Materials Research - Part A, 2008, 87A, 1053-1060.	4.0	31
33	Calcium phosphateâ€“based coatings on titanium and its alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 279-299.	3.4	283
34	Preparation and characteristics of nanoâ€“grained calcium phosphate coatings on titanium from ultrasonated bath at acidic pH. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 231-239.	3.4	23
35	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
36	Point defect model and corrosion of anodic oxide coatings on Tiâ€“6Alâ€“4V. Corrosion Science, 2008, 50, 1521-1529.	6.6	82

#	ARTICLE	IF	CITATIONS
37	Phosphoric acid anodization of Ti-6Al-4V – Structural and corrosion aspects. Corrosion Science, 2007, 49, 542-558.	6.6	90
38	Synthesis and corrosion of functionally gradient TiO <sub>2</sub> and hydroxyapatite coatings on Ti-6Al-4V. Materials Chemistry and Physics, 2007, 106, 406-411.	4.0	24
39	Electrochemical nano-grained calcium phosphate coatings on Ti-6Al-4V for biomaterial applications. Scripta Materialia, 2007, 56, 229-232.	5.2	76
40	Synthesis, corrosion and wear of anodic oxide coatings on Ti-6Al-4V. Journal of Materials Science: Materials in Medicine, 2007, 18, 779-786.	3.6	10
41	Hydroxy apatite coatings on Ti-6Al-4V from seashell. Surface and Coatings Technology, 2006, 200, 4720-4730.	4.8	44
42	Anodic oxide coatings on Ti-6Al-4V produced from electrolyte containing Ca and P – Corrosion aspects. Journal of Applied Electrochemistry, 2006, 36, 475-479.	2.9	21
43	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
44	Stress corrosion cracking of maraging steel weldments. Materials Science and Technology, 2003, 19, 375-381.	1.6	21
45	Tensile properties and fracture toughness of 18Ni (250 grade) maraging steel weldments. Science and Technology of Welding and Joining, 2000, 5, 329-337.	3.1	24
46	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