

Sameer R Paital

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10379466/publications.pdf>

Version: 2024-02-01

25
papers

1,240
citations

430874

18
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium phosphate coatings for bio-implant applications: Materials, performance factors, and methodologies. <i>Materials Science and Engineering Reports</i> , 2009, 66, 1-70.	31.8	559
2	Wettability and kinetics of hydroxyapatite precipitation on a laser-textured Ca-P bioceramic coating. <i>Acta Biomaterialia</i> , 2009, 5, 2763-2772.	8.3	71
3	Phase constituents and microstructure of laser synthesized TiB ₂ -TiC reinforced composite coating on steel. <i>Scripta Materialia</i> , 2008, 59, 1147-1150.	5.2	62
4	Wetting behaviour of laser synthetic surface microtextures on Ti-6Al-4V for bioapplication. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1863-1889.	3.4	61
5	Improved corrosion and wear resistance of Mg alloys via laser surface modification of Al on AZ31B. <i>Surface and Coatings Technology</i> , 2012, 206, 2308-2315.	4.8	56
6	Microstructure and properties of spark plasma sintered Fe-Cr-Mo-Y-B-C bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2179-2182.	3.1	51
7	Synthesis of TiB ₂ -TiC/Fe nano-composite coating by laser surface engineering. <i>Optics and Laser Technology</i> , 2013, 45, 647-653.	4.6	45
8	Laser surface treatment for porous and textured Ca-P bio-ceramic coating on Ti-6Al-4V. <i>Biomedical Materials (Bristol)</i> , 2007, 2, 274-281.	3.3	33
9	Osteoblast interaction with laser clad HA and SiO ₂ -HA coatings on Ti-6Al-4V. <i>Materials Science and Engineering C</i> , 2011, 31, 1643-1652.	7.3	29
10	Fabrication and evaluation of a pulse laser-induced Ca-P coating on a Ti alloy for bioapplication. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 015009.	3.3	28
11	Laser deposited biocompatible Ca-P coatings on Ti-6Al-4V: Microstructural evolution and thermal modeling. <i>Materials Science and Engineering C</i> , 2013, 33, 165-173.	7.3	27
12	Wetting effects on <i>in vitro</i> bioactivity and <i>in vitro</i> biocompatibility of laser micro-textured Ca-P coating. <i>Biofabrication</i> , 2010, 2, 025001.	7.1	26
13	Pulsed laser synthesis of ceramic-metal composite coating on steel. <i>Applied Surface Science</i> , 2008, 255, 3188-3194.	6.1	25
14	Laser pulse dependent micro textured calcium phosphate coatings for improved wettability and cell compatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2187-2200.	3.6	25
15	Process optimization in laser surface structuring of alumina. <i>Journal of Materials Processing Technology</i> , 2008, 203, 498-504.	6.3	21
16	Densification Behavior and Wear Response of Spark Plasma Sintered Iron-Based Bulk Amorphous Alloys. <i>Advanced Engineering Materials</i> , 2012, 14, 400-407.	3.5	20
17	Effects of SiO ₂ substitution on wettability of laser deposited Ca-P biocoating on Ti-6Al-4V. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2511-2521.	3.6	19
18	Pulsed laser surface treatment of magnesium alloy: Correlation between thermal model and experimental observations. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5060-5067.	6.3	18

#	ARTICLE	IF	CITATIONS
19	Laser surface modification for synthesis of textured bioactive and biocompatible Caâ€P coatings on Tiâ€6Alâ€4V. Journal of Materials Science: Materials in Medicine, 2011, 22, 1393-1406.	3.6	18
20	Structural Relaxation and Nanocrystallization-Induced Laser Surface Hardening of Fe-Based Bulk Amorphous Alloys. Jom, 2014, 66, 1080-1087.	1.9	14
21	Laser surface modification of alumina: Integrated computational and experimental analysis. Ceramics International, 2013, 39, 6207-6213.	4.8	12
22	Periodically Laser Patterned Fe _{1-x} Bi _x Si Amorphous Ribbons: Phase Evolution and Mechanical Behavior. Advanced Engineering Materials, 2011, 13, 955-960.	3.5	10
23	Laser process effects on physical texture and wetting in implantable Ti-alloys. Jom, 2010, 62, 76-83.	1.9	7
24	A thermal model for laser interaction with thick dielectric film on metallic substrate: Application to Caâ€P layer on Ti alloy. Journal of Alloys and Compounds, 2009, 487, 499-503.	5.5	3
25	PULSED LASER SURFACE MODIFICATION OF AZ31B WITH Al-Si. Surface Review and Letters, 2012, 19, 1250015.	1.1	0