

# 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	Structural Relaxation and Nanocrystallization-Induced Laser Surface Hardening of Fe-Based Bulk Amorphous Alloys. <i>Jom</i> , 2014, 66, 1080-1087.	1.9	14
2	Laser surface modification of alumina: Integrated computational and experimental analysis. <i>Ceramics International</i> , 2013, 39, 6207-6213.	4.8	12
3	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
4	Synthesis of TiB <sub>2</sub> -TiC/Fe nano-composite coating by laser surface engineering. <i>Optics and Laser Technology</i> , 2013, 45, 647-653.	4.6	45
5	PULSED LASER SURFACE MODIFICATION OF AZ31B WITH Al-Si. <i>Surface Review and Letters</i> , 2012, 19, 1250015.	1.1	0
6	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
7	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
8	Osteoblast interaction with laser clad HA and SiO <sub>2</sub> -HA coatings on Ti-6Al-4V. <i>Materials Science and Engineering C</i> , 2011, 31, 1643-1652.	7.3	29
9	Laser surface modification for synthesis of textured bioactive and biocompatible Ca-P coatings on Ti-6Al-4V. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1393-1406.	3.6	18
10	Periodically Laser Patterned Fe <sub>1-x</sub> Bi <sub>x</sub> Si Amorphous Ribbons: Phase Evolution and Mechanical Behavior. <i>Advanced Engineering Materials</i> , 2011, 13, 955-960.	3.5	10
11	Laser process effects on physical texture and wetting in implantable Ti-alloys. <i>Jom</i> , 2010, 62, 76-83.	1.9	7
12	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
13	Effects of SiO <sub>2</sub> 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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Microstructure and properties of spark plasma sintered Fe-Cr-Mo-Y-B-C bulk metallic glass. Journal of Non-Crystalline Solids, 2009, 355, 2179-2182.	3.1	51
20	A thermal model for laser interaction with thick dielectric film on metallic substrate: Application to Ca-P layer on Ti alloy. Journal of Alloys and Compounds, 2009, 487, 499-503.	5.5	3
21	Fabrication and evaluation of a pulse laser-induced Ca-P coating on a Ti alloy for bioapplication. Biomedical Materials (Bristol), 2009, 4, 015009.	3.3	28
22	Pulsed laser synthesis of ceramic-metal composite coating on steel. Applied Surface Science, 2008, 255, 3188-3194.	6.1	25
23	Process optimization in laser surface structuring of alumina. Journal of Materials Processing Technology, 2008, 203, 498-504.	6.3	21
24	Phase constituents and microstructure of laser synthesized TiB <sub>2</sub> -TiC reinforced composite coating on steel. Scripta Materialia, 2008, 59, 1147-1150.	5.2	62
25	Laser surface treatment for porous and textured Ca-P bio-ceramic coating on Ti-6Al-4V. Biomedical Materials (Bristol), 2007, 2, 274-281.	3.3	33