

# Irfan Kaymaz

## List of Publications by Year in descending order

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39  
papers

1,335  
citations

687363

13  
h-index

377865

34  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the Optimum Process Parameters of Selective Laser Melting via Particle Swarm Optimization Based on the Response Surface Method. <i>Metals and Materials International</i> , 2023, 29, 59-70.	3.4	7
2	Designing and <i>in vitro</i> testing of a novel patient-specific total knee prosthesis using the probabilistic approach. <i>Biomedizinische Technik</i> , 2022, 67, 295-305.	0.8	1
3	An application of finite element method in material selection for dental implant crowns. <i>Biomedizinische Technik</i> , 2021, 66, 429-436.	0.8	1
4	Triad of foot deformities and its conservative treatment: With a 3D customized insole. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 780-791.	1.8	4
5	A new porous fixation plate design using the topology optimization. <i>Medical Engineering and Physics</i> , 2021, 92, 18-24.	1.7	5
6	Development of particle swarm and topology optimization-based modeling for mandibular distractor plates. <i>Swarm and Evolutionary Computation</i> , 2020, 53, 100645.	8.1	10
7	Investigating the Optimum Model Parameters for Casting Process of A356 Alloy: A Cross-validation Using Response Surface Method and Particle Swarm Optimization. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 9759-9768.	3.0	7
8	Optimal Material Selection for Total Hip Implant: A Finite Element Case Study. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10293-10301.	3.0	18
9	Determining the Patient-Specific Optimum Osteotomy Line for Severe Mandibular Retrognathia Patients. <i>Journal of Craniofacial Surgery</i> , 2018, 29, e449-e454.	0.7	7
10	Comprehensive analysis of the volume of bone for grafting that can be harvested from iliac crest donor sites. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2017, 55, 803-808.	0.8	10
11	An Analysis of Mandibular Symphyseal Graft Sufficiency for Alveolar Cleft Bone Grafting. <i>Journal of Craniofacial Surgery</i> , 2017, 28, 147-150.	0.7	15
12	Multi-objective optimization of a honeycomb heat sink using Response Surface Method. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 295-302.	4.8	72
13	A New Design for Maximum Conformity of Total Knee Prosthesis to Femur and Tibia. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016, 26, 365-374.	0.7	2
14	Numerical investigation of mechanical effects caused by various fixation positions on a new radius intramedullary nail. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 316-324.	1.6	9
15	Failure analysis of the cement mantle in total hip arthroplasty with an efficient probabilistic method. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 409-417.	1.8	4
16	Plain and fretting fatigue behavior of Ti6Al4V alloy coated with TiAlN thin film. <i>Tribology International</i> , 2013, 66, 307-314.	5.9	24
17	An improved response surface method for reliability analysis of structures. <i>Structural Engineering and Mechanics</i> , 2012, 42, 175-189.	1.0	23
18	Theoretical Investigation Of Plate Fixation And Intramedullary Nailing Methods On Radius Fractures. <i>Sakarya University Journal of Science</i> , 2012, 16, 330-336.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Knee Arthroplasty Bone Model with Double Layer Array Synthesis and Evaluation of Finite Element Analysis. Sakarya University Journal of Science, 2012, 16, 189-194.	0.7	0
20	Title is missing!. Sakarya University Journal of Science, 2012, 16, 294-302.	0.7	1
21	Fretting fatigue properties of plasma nitrided AISI 316L stainless steel: Experiments and finite element analysis. Tribology International, 2011, 44, 1979-1986.	5.9	34
22	The effects of the cement thickness on the failure probability of the cemented hip prosthesis. Journal of Biomechanics, 2011, 44, 9.	2.1	1
23	Deposition and Adhesion Characterization of Ti(BN:MoS <sub>2</sub> ) Based Composite Thin Films Prepared by Closed-Field Unbalanced Magnetron Sputtering. Journal of Adhesion Science and Technology, 2011, 25, 1497-1505.	2.6	6
24	CHARACTERIZATION OF TiB <sub>2</sub> COATING ADHERENCE BY A MULTI-PASS SCRATCH TESTING. Surface Review and Letters, 2009, 16, 329-335.	1.1	5
25	Effects of plasma nitriding on mechanical and tribological properties of CoCrMo alloy. Surface and Coatings Technology, 2008, 202, 2433-2438.	4.8	51
26	Approximation methods for reliability-based design optimization problems. GAMM Mitteilungen, 2007, 30, 255-268.	5.5	7
27	Reliability-based design optimization for elastoplastic mechanical structures. Computers and Structures, 2007, 85, 615-625.	4.4	32
28	Reliability analysis for elastoplastic mechanical structures under stochastic uncertainty. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2006, 86, 358-384.	1.6	7
29	A response surface method based on weighted regression for structural reliability analysis. Probabilistic Engineering Mechanics, 2005, 20, 11-17.	2.7	245
30	Application of kriging method to structural reliability problems. Structural Safety, 2005, 27, 133-151.	5.3	539
31	The Effect of Residual Stresses Induced by Prestraining on Fatigue Life of Notched Specimens. Journal of Materials Engineering and Performance, 2005, 14, 351-355.	2.5	4
32	Temperature and air-fuel ratio dependent specific heat ratio functions for lean burned and unburned mixture. Energy Conversion and Management, 2005, 46, 2387-2404.	9.2	53
33	A probabilistic design system for reliability-based design optimization. Structural and Multidisciplinary Optimization, 2004, 28, 416-426.	3.5	10
34	A repair process for fatigue damage using plasma nitriding. Surface and Coatings Technology, 2004, 186, 333-338.	4.8	32
35	The effect of homogenisation treatment on cold deformations of AA 2014 and AA 6063 alloys. Journal of Materials Processing Technology, 2004, 147, 60-64.	6.3	43
36	Improvements of fatigue behaviour in 2014 Al alloy by solution heat treating and age-hardening. Materials & Design, 2004, 25, 439-445.	5.1	39

#	ARTICLE	IF	CITATIONS
37	Fatigue Behavior of X40CrMoV 51 at High Temperatures. Journal of Materials Engineering and Performance, 2003, 12, 215-219.	2.5	0
38	Corrosion Behavior of 90% Cu-10% Ni Alloy at Different Rotation Speeds. Corrosion Reviews, 2002, 20, 403-414.	2.0	7
39	Evaluation of Graft Harvesting Operations from Anterior and Posterior Iliac Donor Sites by Finite Element Analysis. Caucasian Journal of Science, 0, , .	0.7	0