

# Keng-Liang Ou

## List of Publications by Year in descending order

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102  
papers

2,553  
citations

201674

27  
h-index

223800

46  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofabrication of bone tissue: approaches, challenges and translation for bone regeneration. <i>Biomaterials</i> , 2016, 83, 363-382.	11.4	483
2	Importance of dual delivery systems for bone tissue engineering. <i>Journal of Controlled Release</i> , 2016, 225, 152-169.	9.9	146
3	Efficacy of Eye-Movement Desensitization and Reprocessing for Patients with Posttraumatic-Stress Disorder: A Meta-Analysis of Randomized Controlled Trials. <i>PLoS ONE</i> , 2014, 9, e103676.	2.5	121
4	Rapid fabrication of carbon quantum dots as multifunctional nanovehicles for dual-modal targeted imaging and chemotherapy. <i>Acta Biomaterialia</i> , 2016, 46, 151-164.	8.3	90
5	Development of 3D in Vitro Technology for Medical Applications. <i>International Journal of Molecular Sciences</i> , 2014, 15, 17938-17962.	4.1	82
6	A Machine Learning Approach for the Identification of a Biomarker of Human Pain using fNIRS. <i>Scientific Reports</i> , 2019, 9, 5645.	3.3	61
7	Silica nanohybrids integrated with CuInS <sub>2</sub> /ZnS quantum dots and magnetite nanocrystals: multifunctional agents for dual-modality imaging and drug delivery. <i>Journal of Materials Chemistry</i> , 2011, 21, 19257.	6.7	58
8	Preparation of bioactive amorphous-like titanium oxide layer on titanium by plasma oxidation treatment. <i>Applied Surface Science</i> , 2008, 255, 2046-2051.	6.1	51
9	Differences in cortisol profiles and circadian adjustment time between nurses working night shifts and regular day shifts: A prospective longitudinal study. <i>International Journal of Nursing Studies</i> , 2015, 52, 1193-1201.	5.6	51
10	The potential of the stem cells composite hydrogel wound dressings for promoting wound healing and skin regeneration: <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 278-285.	3.4	49
11	Effects of Nitrogen Plasma Treatment on Tantalum Diffusion Barriers in Copper Metallization. <i>Journal of the Electrochemical Society</i> , 2003, 150, C83.	2.9	45
12	Microstructure and antibacterial properties of microwave plasma nitrided layers on biomedical stainless steels. <i>Applied Surface Science</i> , 2011, 257, 7375-7380.	6.1	42
13	Antibacterial nanostructured composite films for biomedical applications: microstructural characteristics, biocompatibility, and antibacterial mechanisms. <i>Biofouling</i> , 2013, 29, 295-305.	2.2	42
14	Microstructure and phase transition of biocompatible titanium oxide film on titanium by plasma discharging. <i>Journal of Alloys and Compounds</i> , 2009, 476, 683-688.	5.5	41
15	Effect of collagen on the mechanical properties of hydroxyapatite coatings. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 618-624.	3.1	41
16	Cortical Network Response to Acupuncture and the Effect of the Hegu Point: An fNIRS Study. <i>Sensors</i> , 2019, 19, 394.	3.8	38
17	Sleep bruxism: an updated review of an old problem. <i>Acta Odontologica Scandinavica</i> , 2016, 74, 328-334.	1.6	37
18	Biomedical nanostructured coating for minimally invasive surgery devices applications: characterization, cell cytotoxicity evaluation and an animal study in rat. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2014, 28, 2174-2188.	2.4	36

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19	Hybrid micro/nanostructural surface offering improved stress distribution and enhanced osseointegration properties of the biomedical titanium implant. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 173-180.	3.1	36
20	Effect of nano-titanium hydride on formation of multi-nanoporous TiO <sub>2</sub> film on Ti. <i>Applied Surface Science</i> , 2007, 253, 3678-3682.	6.1	35
21	Polymeric nanoparticles for therapy and imaging. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1216-1225.	3.2	32
22	Influence of Hydrogen Charging on the Formation of Nanostructural Titania by Anodizing with Cathodic Pretreatment. <i>Journal of the Electrochemical Society</i> , 2007, 154, E13.	2.9	30
23	Development of silver-containing austenite antibacterial stainless steels for biomedical applications Part I: microstructure characteristics, mechanical properties and antibacterial mechanisms. <i>Biofouling</i> , 2011, 27, 449-457.	2.2	30
24	Effect of Multi-nano-titania Film on Proliferation and Differentiation of Mouse Fibroblast Cell on Titanium. <i>Journal of the Electrochemical Society</i> , 2008, 155, E79.	2.9	28
25	Biodegradable nanoparticles for gene therapy technology. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	28
26	Prospects of siRNA applications in regenerative medicine. <i>International Journal of Pharmaceutics</i> , 2017, 524, 312-329.	5.2	28
27	Aqueous synthesis of Ag and Mn co-doped In <sub>2</sub> S <sub>3</sub> /ZnS quantum dots with tunable emission for dual-modal targeted imaging. <i>Acta Biomaterialia</i> , 2017, 50, 522-533.	8.3	28
28	Development of bovine serum albumin-modified hybrid nanoclusters for magnetofluorescence imaging and drug delivery. <i>RSC Advances</i> , 2014, 4, 32762-32772.	3.6	27
29	Novel multilayered Ti/TiN diffusion barrier for Al metallization. <i>Journal of Electronic Materials</i> , 2005, 34, 1150-1156.	2.2	26
30	Stress effect on bone remodeling and osseointegration on dental implant with novel nano/microporous surface functionalization. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1158-1164.	4.0	26
31	Comparison of Cell Response and Surface Characteristics on Titanium Implant with SLA and SLAffinity Functionalization. <i>Journal of the Electrochemical Society</i> , 2014, 161, G15-G20.	2.9	26
32	The Effect of Titanium With Electrochemical Anodization on the Response of the Adherent Osteoblast-Like Cell. <i>Implant Dentistry</i> , 2012, 21, 344-349.	1.3	23
33	Surface modification induced phase transformation and structure variation on the rapidly solidified recast layer of titanium. <i>Materials Characterization</i> , 2015, 106, 463-469.	4.4	23
34	Effects of the nanostructure and nanoporosity on bioactive nanohydroxyapatite/reconstituted collagen by electrodeposition. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 906-912.	4.0	21
35	Early bone response to machined, sandblasting acid etching (SLA) and novel surface functionalization (SLAffinity) titanium implants: characterization, biomechanical analysis and histological evaluation in pigs. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 397-405.	4.0	21
36	A low molecular mass organogelator electrolyte with TiO <sub>2</sub> nanoparticles for stable and efficient quasi-solid-state dye sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 7671-7678.	3.6	21

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37	Preparation of poly(ethylene glycol) methacrylate coated CuInS <sub>2</sub> /ZnS quantum dots and their use in cell staining. RSC Advances, 2012, 2, 6018.	3.6	20
38	An Immunomodulatory Protein (Ling Zhi-8) from a <i>Ganoderma lucidum</i> Induced Acceleration of Wound Healing in Rat Liver Tissues after Monopolar Electrosurgery. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-12.	1.2	20
39	Effect of Hydroxyapatite on the Mechanical Properties and Corrosion Behavior of Mg-Zn-Y Alloy. Materials, 2017, 10, 855.	2.9	18
40	Evaluation of Surface Characteristics and Hemocompatibility on the Oxygen Plasma-Modified Biomedical Titanium. Metals, 2018, 8, 513.	2.3	18
41	Synthesis of CuInSe <sub>2</sub> ternary nanostructures: a combined oriented attachment and ligand protection strategy. CrystEngComm, 2011, 13, 4236.	2.6	17
42	Region of Interest Detection and Evaluation in Functional near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 317-326.	1.5	17
43	Oxygen-implanted induced formation of oxide layer enhances blood compatibility on titanium for biomedical applications. Materials Science and Engineering C, 2016, 68, 523-529.	7.3	17
44	The application of silver nano-particles on developing potential treatment for chronic rhinosinusitis: Antibacterial action and cytotoxicity effect on human nasal epithelial cell model. Materials Science and Engineering C, 2017, 80, 624-630.	7.3	17
45	An innovative calcium sulfate hemihydrate bioceramic as a potential bone graft substitute. Journal of the American Ceramic Society, 2018, 101, 419-427.	3.8	17
46	The potential of the three-dimensional printed titanium mesh implant for cranioplasty surgery applications: Biomechanical behaviors and surface properties. Materials Science and Engineering C, 2019, 97, 412-419.	7.3	16
47	Toward a functional near-infrared spectroscopy-based monitoring of pain assessment for nonverbal patients. Journal of Biomedical Optics, 2017, 22, 1.	2.6	16
48	Platelet-Rich Fibrin Facilitates One-Stage Cartilage Repair by Promoting Chondrocytes Viability, Migration, and Matrix Synthesis. International Journal of Molecular Sciences, 2020, 21, 577.	4.1	15
49	Micro/nanostructured surface modification using femtosecond laser pulses on minimally invasive electrosurgical devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 865-873.	3.4	14
50	Stereolithographic Surgical Guide with a Combination of Tooth and Bone Support: Accuracy of Guided Implant Surgery in Distal Extension Situation. Journal of Clinical Medicine, 2020, 9, 709.	2.4	14
51	Effect of Hydrogen on Formation of Nanoporous TiO <sub>2</sub> by Anodization with Hydrogen-Fluoride Pretreatment. Electrochemical and Solid-State Letters, 2006, 9, D25.	2.2	13
52	Osseointegration of titanium implants with SLA affinity treatment: a histological and biomechanical study in miniature pigs. Clinical Oral Investigations, 2016, 20, 1515-1524.	3.0	13
53	Pain Assessment based on fNIRS using Bi-LSTM RNNs. , 2021, , .		13
54	The Effect of pH Value on Phase Transformation of Calcium Phosphate Cement. International Journal of Applied Ceramic Technology, 2014, 11, 364-370.	2.1	11

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55	Repositioning Titanium: An In Vitro Evaluation of Laser-Generated Microporous, Microrough Titanium Templates As a Potential Bridging Interface for Enhanced Osseointegration and Durability of Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 77.	4.1	11
56	Highly Expressed FOXF1 Inhibit Non-Small-Cell Lung Cancer Growth via Inducing Tumor Suppressor and G1-Phase Cell-Cycle Arrest. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3227.	4.1	11
57	The Potential of a Surface-Modified Titanium Implant with Tetrapeptide for Osseointegration Enhancement. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2616.	2.5	11
58	Disinfection effects of undoped and silver-doped ceria powders of nanometer crystallite size. <i>International Journal of Nanomedicine</i> , 2016, 11, 2531.	6.7	10
59	Effect of nanostructured thin film on minimally invasive surgery devices applications: characterization, cell cytotoxicity evaluation and an animal study in rat. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2016, 30, 3035-3049.	2.4	10
60	Physiological fluctuations show frequency-specific networks in fNIRS signals during resting state. , 2017, 2017, 2550-2553.		10
61	Research of StemBios Cell Therapy on Dental Implants Containing Nanostructured Surfaces. <i>Implant Dentistry</i> , 2016, 25, 63-73.	1.3	9
62	Research of electrosurgical unit with novel antiadhesion composite thin film for tumor ablation: Microstructural characteristics, thermal conduction properties, and biological behaviors. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 96-105.	3.4	9
63	Nanostructured titanium dioxide layer combined with reactive functional groups as a promising biofunctional surface for biomedical applications. <i>Ceramics International</i> , 2019, 45, 9712-9718.	4.8	9
64	Development of a Surface-Functionalized Titanium Implant for Promoting Osseointegration: Surface Characteristics, Hemocompatibility, and In Vivo Evaluation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8582.	2.5	9
65	The Potential of a Hair Follicle Mesenchymal Stem Cell-Conditioned Medium for Wound Healing and Hair Follicle Regeneration. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2646.	2.5	9
66	Establishing cleft services in developing countries: Complications of cleft lip and palate surgery in rural areas of Indonesia. <i>Archives of Plastic Surgery</i> , 2019, 46, 511-517.	0.9	9
67	Research on cell behavior related to anodized and hydrothermally treated titanium surface. <i>Applied Surface Science</i> , 2013, 271, 1-6.	6.1	8
68	Surface Properties and Biocompatibility of Anodized Titanium with a Potential Pretreatment for Biomedical Applications. <i>Metals</i> , 2021, 11, 1090.	2.3	8
69	Effects of Chemical and Heat Treatments on Surface Characteristics and Biocompatibility of Titanium-Niobium Alloys. <i>Materials Transactions</i> , 2007, 48, 2978-2985.	1.2	7
70	Effect of Recombinant Human Bone Morphogenetic Protein-2 and Ling Zhi-8 on Osteogenesis: A Comparative Study Using a Rabbit Sinus Model. <i>Journal of Oral and Maxillofacial Surgery</i> , 2014, 72, 1703.e1-1703.e10.	1.2	7
71	Silver overlayer-modified surface-enhanced Raman scattering-active gold substrates for potential applications in trace detection of biochemical species. <i>Analytica Chimica Acta</i> , 2014, 806, 188-196.	5.4	7
72	Fabrication of biomolecules coated nanostructured oxide layer to facilitate cell adhesion and proliferation for improving osseointegration. <i>Ceramics International</i> , 2019, 45, 21941-21946.	4.8	7

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73	Bone Healing and Regeneration Potential in Rabbit Cortical Defects Using an Innovative Bioceramic Bone Graft Substitute. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6239.	2.5	7
74	Surface Characteristics and Cell Adhesion Behaviors of the Anodized Biomedical Stainless Steel. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6275.	2.5	7
75	Effect of O <sub>2</sub> -Plasma Treatment on Surface Characteristics and Osteoblast-Like MG-63 Cells Response of Ti-30Nb-1Fe-1Hf Alloy. <i>Materials Transactions</i> , 2009, 50, 891-898.	1.2	6
76	Magnetic Interaction between Surface-Engineered Rare-Earth Atomic Spins. <i>Physical Review X</i> , 2012, 2, .	8.9	6
77	One-Year Follow-Up of the Effectiveness of Cognitive Behavioral Group Therapy for Patients with Depression: A Randomized, Single-Blinded, Controlled Study. <i>Scientific World Journal</i> , The, 2015, 2015, 1-11.	2.1	6
78	Surface, Biocompatible and Hemocompatible Properties of Magneta-Alumina Morphous Titanium Oxide Film. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 341-350.	2.1	6
79	Calcium Release from Different Toothpastes after the Incorporation of Tricalcium Phosphate and Amorphous Calcium Phosphate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1848.	2.5	6
80	Strategy on effective detection of acetaldehydes by using surface-enhanced Raman scattering-active chitosan-capped nanostructured Au. <i>Journal of Electroanalytical Chemistry</i> , 2013, 702, 66-71.	3.8	5
81	D03 Ordered Phase Strengthening in Dual Phase Twinning-Induced Plasticity Steel. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2085-2090.	2.5	5
82	Application of a Promising Bone Graft Substitute in Bone Tissue Regeneration: Characterization, Biocompatibility, and <i>In Vivo</i> Animal Study. <i>BioMed Research International</i> , 2019, 2019, 1-7.	1.9	5
83	Three-Dimensional Printing of a Hybrid Bioceramic and Biopolymer Porous Scaffold for Promoting Bone Regeneration Potential. <i>Materials</i> , 2022, 15, 1971.	2.9	5
84	Comparative <i>In Vitro</i> Osteoinductivity Study of HA and TCP/HA Bicalcium Phosphate. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 192-198.	2.1	4
85	An Innovative Bioceramic Bone Graft with Platelet-Rich Plasma for Rapid Bone Healing and Regeneration in a Rabbit Model. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5271.	2.5	4
86	A Promising Potential of Brown Algae <i>Sargassum polycystum</i> as Irreversible Hydrocolloid Impression Material. <i>Marine Drugs</i> , 2022, 20, 55.	4.6	4
87	The Potential of a Tailored Biomimetic Hydrogel for <i>In Vitro</i> Cell Culture Applications: Characterization and Biocompatibility. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9035.	2.5	3
88	Production of Oxide Dispersion Strengthened Mg-Zn-Y Alloy by Equal Channel Angular Pressing of Mechanically Alloyed Powder. <i>Metals</i> , 2020, 10, 679.	2.3	3
89	Preparation of a Biofunctionalized Surface on Titanium for Biomedical Applications: Surface Properties, Wettability Variations, and Biocompatibility Characteristics. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1438.	2.5	3
90	Anodized Biomedical Stainless-Steel Mini-Implant for Rapid Recovery in a Rabbit Model. <i>Metals</i> , 2021, 11, 1575.	2.3	3

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91	An Innovative Customized Biomimetic Hydrogel for Drug Screening Application Potential: Biocompatibility and Cell Invasion Ability. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1488.	4.1	3
92	Enhancement of Biocompatibility on Bioactive Ti-Nb-Based Alloy by High-Density Plasma Modification. <i>Materials Transactions</i> , 2007, 48, 3164-3169.	1.2	2
93	Research of Electrosurgical Ablation with Antiadhesive Functionalization on Thermal and Histopathological Effects of Brain Tissues In Vivo. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	2
94	An Innovative Bioceramic Bone Graft Substitute for Bone Defect Treatment: In Vivo Evaluation of Bone Healing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8303.	2.5	2
95	A Tailored Biomimetic Hydrogel as Potential Bioink to Print a Cell Scaffold for Tissue Engineering Applications: Printability and Cell Viability Evaluation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 829.	2.5	2
96	Biomimetic Ceramic Composite: Characterization, Cell Response, and In Vivo Biocompatibility. <i>Materials</i> , 2021, 14, 7374.	2.9	2
97	Surface characterization and thermomechanical behavior of nanostructured-gold layer for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1114-1120.	5.5	1
98	Microfluidic chip fabrication by micro-powder blasting. , 2008, , .		0
99	Well aligned ultrasharp nanotip arrays for high-efficiency field emission. , 2011, , .		0
100	Machining Heat Induced Phase Transformation on the Surface Hardening Layer of High Strength Ferrous-Based Biomedical Stainless Steel. <i>Materials Transactions</i> , 2012, 53, 1391-1394.	1.2	0
101	Activated layered magnetism from bulk TiN. <i>Physical Review Materials</i> , 2019, 3, .	2.4	0
102	Resin cement removal from titanium dental implant surface using a novel side-firing laser fiber and Er,Cr:YSGG irradiation. <i>American Journal of Dentistry</i> , 2020, 33, 178-182.	0.1	0