Keng-Liang Ou

List of Publications by Year
in descending order

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		201674	223800
102	2,553	27	46
papers	citations	h-index	g-index

105	105	105	3965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Promising Potential of Brown Algae Sargassum polycystum as Irreversible Hydrocolloid Impression Material. Marine Drugs, 2022, 20, 55.	4.6	4
2	An Innovative Customized Biomimetic Hydrogel for Drug Screening Application Potential: Biocompatibility and Cell Invasion Ability. International Journal of Molecular Sciences, 2022, 23, 1488.	4.1	3
3	Three-Dimensional Printing of a Hybrid Bioceramic and Biopolymer Porous Scaffold for Promoting Bone Regeneration Potential. Materials, 2022, 15, 1971.	2.9	5
4	A Tailored Biomimetic Hydrogel as Potential Bioink to Print a Cell Scaffold for Tissue Engineering Applications: Printability and Cell Viability Evaluation. Applied Sciences (Switzerland), 2021, 11, 829.	2.5	2
5	Calcium Release from Different Toothpastes after the Incorporation of Tricalcium Phosphate and Amorphous Calcium Phosphate. Applied Sciences (Switzerland), 2021, 11, 1848.	2.5	6
6	The Potential of a Surface-Modified Titanium Implant with Tetrapeptide for Osseointegration Enhancement. Applied Sciences (Switzerland), 2021, 11, 2616.	2.5	11
7	Pain Assessment based on fNIRS using Bi-LSTM RNNs. , 2021, , .		13
8	An Innovative Bioceramic Bone Graft with Platelet-Rich Plasma for Rapid Bone Healing and Regeneration in a Rabbit Model. Applied Sciences (Switzerland), 2021, 11, 5271.	2.5	4
9	Surface Properties and Biocompatibility of Anodized Titanium with a Potential Pretreatment for Biomedical Applications. Metals, 2021, 11, 1090.	2.3	8
10	Anodized Biomedical Stainless-Steel Mini-Implant for Rapid Recovery in a Rabbit Model. Metals, 2021, 11, 1575.	2.3	3
11	Biomimetic Ceramic Composite: Characterization, Cell Response, and In Vivo Biocompatibility. Materials, 2021, 14, 7374.	2.9	2
12	Bone Healing and Regeneration Potential in Rabbit Cortical Defects Using an Innovative Bioceramic Bone Graft Substitute. Applied Sciences (Switzerland), 2020, 10, 6239.	2.5	7
13	An Innovative Bioceramic Bone Graft Substitute for Bone Defect Treatment: In Vivo Evaluation of Bone Healing. Applied Sciences (Switzerland), 2020, 10, 8303.	2.5	2
14	Surface Characteristics and Cell Adhesion Behaviors of the Anodized Biomedical Stainless Steel. Applied Sciences (Switzerland), 2020, 10, 6275.	2.5	7
15	The Potential of a Tailored Biomimetic Hydrogel for In Vitro Cell Culture Applications: Characterization and Biocompatibility. Applied Sciences (Switzerland), 2020, 10, 9035.	2.5	3
16	Development of a Surface-Functionalized Titanium Implant for Promoting Osseointegration: Surface Characteristics, Hemocompatibility, and In Vivo Evaluation. Applied Sciences (Switzerland), 2020, 10, 8582.	2.5	9
17	Highly Expressed FOXF1 Inhibit Non-Small-Cell Lung Cancer Growth via Inducing Tumor Suppressor and G1-Phase Cell-Cycle Arrest. International Journal of Molecular Sciences, 2020, 21, 3227.	4.1	11
18	Production of Oxide Dispersion Strengthened Mg-Zn-Y Alloy by Equal Channel Angular Pressing of Mechanically Alloyed Powder. Metals, 2020, 10, 679.	2.3	3

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19	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
20	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
21	Preparation of a Biofunctionalized Surface on Titanium for Biomedical Applications: Surface Properties, Wettability Variations, and Biocompatibility Characteristics. Applied Sciences (Switzerland), 2020, 10, 1438.	2.5	3
22	The Potential of a Hair Follicle Mesenchymal Stem Cell-Conditioned Medium for Wound Healing and Hair Follicle Regeneration. Applied Sciences (Switzerland), 2020, 10, 2646.	2.5	9
23	Resin cement removal from titanium dental implant surface using a novel side-firing laser fiber and Er,Cr:YSGG irradiation. American Journal of Dentistry, 2020, 33, 178-182.	0.1	0
24	Fabrication of biomolecules coated nanostructured oxide layer to facilitate cell adhesion and proliferation for improving osseointegration. Ceramics International, 2019, 45, 21941-21946.	4.8	7
25	Nanostructured titanium dioxide layer combined with reactive functional groups as a promising biofunctional surface for biomedical applications. Ceramics International, 2019, 45, 9712-9718.	4.8	9
26	Cortical Network Response to Acupuncture and the Effect of the Hegu Point: An fNIRS Study. Sensors, 2019, 19, 394.	3.8	38
27	A Machine Learning Approach for the Identification of a Biomarker of Human Pain using fNIRS. Scientific Reports, 2019, 9, 5645.	3.3	61
28	Application of a Promising Bone Graft Substitute in Bone Tissue Regeneration: Characterization, Biocompatibility, and In Vivo Animal Study. BioMed Research International, 2019, 2019, 1-7.	1.9	5
29	Surface characterization and thermomechanical behavior of nanostructured-gold layer for biomedical applications. Journal of Alloys and Compounds, 2019, 782, 1114-1120.	5.5	1
30	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
31	The potential of the stem cells composite hydrogel wound dressings for promoting wound healing and skin regeneration: In vitro and in vivo evaluation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 278-285.	3.4	49
32	Establishing cleft services in developing countries: Complications of cleft lip and palate surgery in rural areas of Indonesia. Archives of Plastic Surgery, 2019, 46, 511-517.	0.9	9
33	Activated layered magnetism from bulk TiN. Physical Review Materials, 2019, 3, .	2.4	0
34	An innovative Î±â€calcium sulfate hemihydrate bioceramic as a potential bone graft substitute. Journal of the American Ceramic Society, 2018, 101, 419-427.	3.8	17
35	Hybrid micro/nanostructural surface offering improved stress distribution and enhanced osseointegration properties of the biomedical titanium implant. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 173-180.	3.1	36
36	Evaluation of Surface Characteristics and Hemocompatibility on the Oxygen Plasma-Modified Biomedical Titanium. Metals, 2018, 8, 513.	2.3	18

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37	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
38	A low molecular mass organogelator electrolyte with TiO₂ nanoparticles for stable and efficient quasi-solid-state dye sensitized solar cells. RSC Advances, 2017, 7, 7671-7678.	3.6	21
39	Prospects of siRNA applications in regenerative medicine. International Journal of Pharmaceutics, 2017, 524, 312-329.	5.2	28
40	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
41	Aqueous synthesis of Ag and Mn co-doped In2S3/ZnS quantum dots with tunable emission for dual-modal targeted imaging. Acta Biomaterialia, 2017, 50, 522-533.	8.3	28
42	Physiological fluctuations show frequency-specific networks in fNIRS signals during resting state. , 2017, 2017, 2550-2553.		10
43	Effect of Hydroxyapatite on the Mechanical Properties and Corrosion Behavior of Mg-Zn-Y Alloy. Materials, 2017, 10, 855.	2.9	18
44	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. Frontiers in Bioengineering and Biotechnology, 2017, 5, 77.	4.1	11
45	Toward a functional near-infrared spectroscopy-based monitoring of pain assessment for nonverbal patients. Journal of Biomedical Optics, 2017, 22, 1.	2.6	16
46	Disinfection effects of undoped and silver-doped ceria powders of nanometer crystallite size. International Journal of Nanomedicine, 2016, 11, 2531.	6.7	10
47	Research of StemBios Cell Therapy on Dental Implants Containing Nanostructured Surfaces. Implant Dentistry, 2016, 25, 63-73.	1.3	9
48	Early bone response to machined, sandblasting acid etching (SLA) and novel surfaceâ€functionalization (SLAffinity) titanium implants: characterization, biomechanical analysis and histological evaluation in pigs. Journal of Biomedical Materials Research - Part A, 2016, 104, 397-405.	4.0	21
49	Region of Interest Detection and Evaluation in Functional near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 317-326.	1.5	17
50	Rapid fabrication of carbon quantum dots as multifunctional nanovehicles for dual-modal targeted imaging and chemotherapy. Acta Biomaterialia, 2016, 46, 151-164.	8.3	90
51	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
52	Sleep bruxism: an updated review of an old problem. Acta Odontologica Scandinavica, 2016, 74, 328-334.	1.6	37
53	Importance of dual delivery systems for bone tissue engineering. Journal of Controlled Release, 2016, 225, 152-169.	9.9	146
54	Osseointegration of titanium implants with SLAffinity treatment: a histological and biomechanical study in miniature pigs. Clinical Oral Investigations, 2016, 20, 1515-1524.	3.0	13

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55	Effect of nanostructured thin film on minimally invasive surgery devices applications: characterization, cell cytotoxicity evaluation and an animal study in rat. Surgical Endoscopy and Other Interventional Techniques, 2016, 30, 3035-3049.	2.4	10
56	Biofabrication of bone tissue: approaches, challenges and translation for bone regeneration. Biomaterials, 2016, 83, 363-382.	11.4	483
57	Research of electrosurgical unit with novel antiadhesion composite thin film for tumor ablation: Microstructural characteristics, thermal conduction properties, and biological behaviors. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 96-105.	3.4	9
58	Surface modification induced phase transformation and structure variation on the rapidly solidified recast layer of titanium. Materials Characterization, 2015, 106, 463-469.	4.4	23
59	One-Year Follow-Up of the Effectiveness of Cognitive Behavioral Group Therapy for Patientsâ€™ Depression: A Randomized, Single-Blinded, Controlled Study. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	6
60	Differences in cortisol profiles and circadian adjustment time between nurses working night shifts and regular day shifts: A prospective longitudinal study. International Journal of Nursing Studies, 2015, 52, 1193-1201.	5.6	51
61	D03 Ordered Phase Strengthening in Dual Phase Twinning-Induced Plasticity Steel. Journal of Materials Engineering and Performance, 2015, 24, 2085-2090.	2.5	5
62	<scp>S</scp>urface, <scp>B</scp>iocompatible and <scp>H</scp>emocompatible <scp>P</scp>roperties of <scp>M</scp>etaâ€<scp>A</scp>morphous <scp>T</scp>itanium <scp>O</scp>xide <scp>F</scp>ilm. International Journal of Applied Ceramic Technology, 2015, 12, 341-350.	2.1	6
63	Comparative In Vitro Osteoinductivity Study of <scp>HA</scp> and Î±â€<scp>TCP</scp>/<scp>HA</scp> Bicalcium Phosphate. International Journal of Applied Ceramic Technology, 2015, 12, 192-198.	2.1	4
64	Research of Electrosurgical Ablation with Antiadhesive Functionalization on Thermal and Histopathological Effects of Brain Tissues In Vivo. BioMed Research International, 2014, 2014, 1-8.	1.9	2
65	An Immunomodulatory Protein (Ling Zhi-8) from aGanoderma lucidumInduced Acceleration of Wound Healing in Rat Liver Tissues after Monopolar Electrosurgery. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-12.	1.2	20
66	Development of 3D in Vitro Technology for Medical Applications. International Journal of Molecular Sciences, 2014, 15, 17938-17962.	4.1	82
67	Polymeric nanoparticles for therapy and imaging. Polymers for Advanced Technologies, 2014, 25, 1216-1225.	3.2	32
68	Effect of Recombinant Human Bone Morphogenetic Protein-2 and Ling Zhi-8 on Osteogenesis: A Comparative Study Using aÂRabbit Sinus Model. Journal of Oral and Maxillofacial Surgery, 2014, 72, 1703.e1-1703.e10.	1.2	7
69	Comparison of Cell Response and Surface Characteristics on Titanium Implant with SLA and SLAffinity Functionalization. Journal of the Electrochemical Society, 2014, 161, G15-G20.	2.9	26
70	Development of bovine serum albumin-modified hybrid nanoclusters for magnetofluorescence imaging and drug delivery. RSC Advances, 2014, 4, 32762-32772.	3.6	27
71	Biomedical nanostructured coating for minimally invasive surgery devices applications: characterization, cell cytotoxicity evaluation and an animal study in rat. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 2174-2188.	2.4	36
72	Silver overlayer-modified surface-enhanced Raman scattering-active gold substrates for potential applications in trace detection of biochemical species. Analytica Chimica Acta, 2014, 806, 188-196.	5.4	7

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73	The Effect of <scp>pH</scp> Value on Phase Transformation of Calcium Phosphate Cement. International Journal of Applied Ceramic Technology, 2014, 11, 364-370.	2.1	11
74	Efficacy of Eye-Movement Desensitization and Reprocessing for Patients with Posttraumatic-Stress Disorder: A Meta-Analysis of Randomized Controlled Trials. PLoS ONE, 2014, 9, e103676.	2.5	121
75	Biodegradable nanoparticles for gene therapy technology. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	28
76	Antibacterial nanostructured composite films for biomedical applications: microstructural characteristics, biocompatibility, and antibacterial mechanisms. Biofouling, 2013, 29, 295-305.	2.2	42
77	Research on cell behavior related to anodized and hydrothermally treated titanium surface. Applied Surface Science, 2013, 271, 1-6.	6.1	8
78	Strategy on effective detection of acetaldehydes by using surface-enhanced Raman scattering-active chitosan-capped nanostructured Au. Journal of Electroanalytical Chemistry, 2013, 702, 66-71.	3.8	5
79	Stress effect on bone remodeling and osseointegration on dental implant with novel nano/microporous surface functionalization. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1158-1164.	4.0	26
80	The Effect of Titanium With Electrochemical Anodization on the Response of the Adherent Osteoblast-Like Cell. Implant Dentistry, 2012, 21, 344-349.	1.3	23
81	Magnetic Interaction between Surface-Engineered Rare-Earth Atomic Spins. Physical Review X, 2012, 2, .	8.9	6
82	Machining Heat Induced Phase Transformation on the Surface Hardening Layer of High Strength Ferrous-Based Biomedical Stainless Steel. Materials Transactions, 2012, 53, 1391-1394.	1.2	0
83	Preparation of poly(ethylene glycol) methacrylate coated CuInS2/ZnS quantum dots and their use in cell staining. RSC Advances, 2012, 2, 6018.	3.6	20
84	Well aligned ultrasharp nanotip arrays for high-efficiency field emission. , 2011, , .		0
85	Synthesis of CuInSe2 ternary nanostructures: a combined oriented attachment and ligand protection strategy. CrystEngComm, 2011, 13, 4236.	2.6	17
86	Silica nanohybrids integrated with CuInS2/ZnS quantum dots and magnetite nanocrystals: multifunctional agents for dual-modality imaging and drug delivery. Journal of Materials Chemistry, 2011, 21, 19257.	6.7	58
87	Microstructure and antibacterial properties of microwave plasma nitrided layers on biomedical stainless steels. Applied Surface Science, 2011, 257, 7375-7380.	6.1	42
88	Effect of collagen on the mechanical properties of hydroxyapatite coatings. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 618-624.	3.1	41
89	Development of silver-containing austenite antibacterial stainless steels for biomedical applications Part I: microstructure characteristics, mechanical properties and antibacterial mechanisms. Biofouling, 2011, 27, 449-457.	2.2	30
90	Effects of the nanostructure and nanoporosity on bioactive nanohydroxyapatite/reconstituted collagen by electrodeposition. Journal of Biomedical Materials Research - Part A, 2010, 92A, 906-912.	4.0	21

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91	Microstructure and phase transition of biocompatible titanium oxide film on titanium by plasma discharging. Journal of Alloys and Compounds, 2009, 476, 683-688.	5.5	41
92	Effect of O₂-Plasma Treatment on Surface Characteristics and Osteoblast-Like MG-63 Cells Response of Ti-30Nb-1Fe-1Hf Alloy. Materials Transactions, 2009, 50, 891-898.	1.2	6
93	Preparation of bioactive amorphous-like titanium oxide layer on titanium by plasma oxidation treatment. Applied Surface Science, 2008, 255, 2046-2051.	6.1	51
94	Effect of Multi-nano-titania Film on Proliferation and Differentiation of Mouse Fibroblast Cell on Titanium. Journal of the Electrochemical Society, 2008, 155, E79.	2.9	28
95	Microfluidic chip fabrication by micro-powder blasting. , 2008, , .		0
96	Enhancement of Biocompatibility on Bioactive Ti-Nb-Based Alloy by High-Density Plasma Modification. Materials Transactions, 2007, 48, 3164-3169.	1.2	2
97	Effects of Chemical and Heat Treatments on Surface Characteristics and Biocompatibility of Titanium-Niobium Alloys. Materials Transactions, 2007, 48, 2978-2985.	1.2	7
98	Influence of Hydrogen Charging on the Formation of Nanostructural Titania by Anodizing with Cathodic Pretreatment. Journal of the Electrochemical Society, 2007, 154, E13.	2.9	30
99	Effect of nano-titanium hydride on formation of multi-nanoporous TiO 2 film on Ti. Applied Surface Science, 2007, 253, 3678-3682.	6.1	35
100	Effect of Hydrogen on Formation of Nanoporous TiO[sub 2] by Anodization with Hydrogen-Fluoride Pretreatment. Electrochemical and Solid-State Letters, 2006, 9, D25.	2.2	13
101	Novel multilayered Ti/TiN diffusion barrier for Al metallization. Journal of Electronic Materials, 2005, 34, 1150-1156.	2.2	26
102	Effects of Nitrogen Plasma Treatment on Tantalum Diffusion Barriers in Copper Metallization. Journal of the Electrochemical Society, 2003, 150, G83.	2.9	45