

Keng-Liang Ou

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,553
citations

201385

27
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223531

46
g-index

105
all docs

105
docs citations

105
times ranked

3965
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Promising Potential of Brown Algae <i>Sargassum polycystum</i> as Irreversible Hydrocolloid Impression Material. <i>Marine Drugs</i> , 2022, 20, 55. | 2.2 | 4 |
| 2 | 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. | 1.8 | 3 |
| 3 | Three-Dimensional Printing of a Hybrid Bioceramic and Biopolymer Porous Scaffold for Promoting Bone Regeneration Potential. <i>Materials</i> , 2022, 15, 1971. | 1.3 | 5 |
| 4 | 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. | 1.3 | 2 |
| 5 | Calcium Release from Different Toothpastes after the Incorporation of Tricalcium Phosphate and Amorphous Calcium Phosphate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1848. | 1.3 | 6 |
| 6 | The Potential of a Surface-Modified Titanium Implant with Tetrapeptide for Osseointegration Enhancement. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2616. | 1.3 | 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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5271. | 1.3 | 4 |
| 9 | Surface Properties and Biocompatibility of Anodized Titanium with a Potential Pretreatment for Biomedical Applications. <i>Metals</i> , 2021, 11, 1090. | 1.0 | 8 |
| 10 | Anodized Biomedical Stainless-Steel Mini-Implant for Rapid Recovery in a Rabbit Model. <i>Metals</i> , 2021, 11, 1575. | 1.0 | 3 |
| 11 | Biomimetic Ceramic Composite: Characterization, Cell Response, and In Vivo Biocompatibility. <i>Materials</i> , 2021, 14, 7374. | 1.3 | 2 |
| 12 | Bone Healing and Regeneration Potential in Rabbit Cortical Defects Using an Innovative Bioceramic Bone Graft Substitute. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6239. | 1.3 | 7 |
| 13 | An Innovative Bioceramic Bone Graft Substitute for Bone Defect Treatment: In Vivo Evaluation of Bone Healing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8303. | 1.3 | 2 |
| 14 | Surface Characteristics and Cell Adhesion Behaviors of the Anodized Biomedical Stainless Steel. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6275. | 1.3 | 7 |
| 15 | The Potential of a Tailored Biomimetic Hydrogel for In Vitro Cell Culture Applications: Characterization and Biocompatibility. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9035. | 1.3 | 3 |
| 16 | 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. | 1.3 | 9 |
| 17 | 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. | 1.8 | 11 |
| 18 | Production of Oxide Dispersion Strengthened Mg-Zn-Y Alloy by Equal Channel Angular Pressing of Mechanically Alloyed Powder. <i>Metals</i> , 2020, 10, 679. | 1.0 | 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. <i>Journal of Clinical Medicine</i> , 2020, 9, 709. | 1.0 | 14 |
| 20 | Platelet-Rich Fibrin Facilitates One-Stage Cartilage Repair by Promoting Chondrocytes Viability, Migration, and Matrix Synthesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 577. | 1.8 | 15 |
| 21 | 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. | 1.3 | 3 |
| 22 | 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. | 1.3 | 9 |
| 23 | 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 |
| 24 | Fabrication of biomolecules coated nanostructured oxide layer to facilitate cell adhesion and proliferation for improving osseointegration. <i>Ceramics International</i> , 2019, 45, 21941-21946. | 2.3 | 7 |
| 25 | 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. | 2.3 | 9 |
| 26 | Cortical Network Response to Acupuncture and the Effect of the Hegu Point: An fNIRS Study. <i>Sensors</i> , 2019, 19, 394. | 2.1 | 38 |
| 27 | A Machine Learning Approach for the Identification of a Biomarker of Human Pain using fNIRS. <i>Scientific Reports</i> , 2019, 9, 5645. | 1.6 | 61 |
| 28 | 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. | 0.9 | 5 |
| 29 | Surface characterization and thermomechanical behavior of nanostructured-gold layer for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1114-1120. | 2.8 | 1 |
| 30 | The potential of the three-dimensional printed titanium mesh implant for cranioplasty surgery applications: Biomechanical behaviors and surface properties. <i>Materials Science and Engineering C</i> , 2019, 97, 412-419. | 3.8 | 16 |
| 31 | 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. | 1.6 | 49 |
| 32 | 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. | 0.4 | 9 |
| 33 | Activated layered magnetism from bulk TiN. <i>Physical Review Materials</i> , 2019, 3, . | 0.9 | 0 |
| 34 | An innovative β -calcium sulfate hemihydrate bioceramic as a potential bone graft substitute. <i>Journal of the American Ceramic Society</i> , 2018, 101, 419-427. | 1.9 | 17 |
| 35 | 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. | 1.5 | 36 |
| 36 | Evaluation of Surface Characteristics and Hemocompatibility on the Oxygen Plasma-Modified Biomedical Titanium. <i>Metals</i> , 2018, 8, 513. | 1.0 | 18 |

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|----|---|-----|-----------|
| 37 | Micro/nanostructured surface modification using femtosecond laser pulses on minimally invasive electrosurgical devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 865-873. | 1.6 | 14 |
| 38 | A low molecular mass organogelator electrolyte with TiO ₂ nanoparticles for stable and efficient quasi-solid-state dye sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 7671-7678. | 1.7 | 21 |
| 39 | Prospects of siRNA applications in regenerative medicine. <i>International Journal of Pharmaceutics</i> , 2017, 524, 312-329. | 2.6 | 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. <i>Materials Science and Engineering C</i> , 2017, 80, 624-630. | 3.8 | 17 |
| 41 | Aqueous synthesis of Ag and Mn co-doped In ₂ S ₃ /ZnS quantum dots with tunable emission for dual-modal targeted imaging. <i>Acta Biomaterialia</i> , 2017, 50, 522-533. | 4.1 | 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. <i>Materials</i> , 2017, 10, 855. | 1.3 | 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. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 77. | 2.0 | 11 |
| 45 | Toward a functional near-infrared spectroscopy-based monitoring of pain assessment for nonverbal patients. <i>Journal of Biomedical Optics</i> , 2017, 22, 1. | 1.4 | 16 |
| 46 | Disinfection effects of undoped and silver-doped ceria powders of nanometer crystallite size. <i>International Journal of Nanomedicine</i> , 2016, 11, 2531. | 3.3 | 10 |
| 47 | Research of StemBios Cell Therapy on Dental Implants Containing Nanostructured Surfaces. <i>Implant Dentistry</i> , 2016, 25, 63-73. | 1.7 | 9 |
| 48 | 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. | 2.1 | 21 |
| 49 | Region of Interest Detection and Evaluation in Functional near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 317-326. | 0.8 | 17 |
| 50 | Rapid fabrication of carbon quantum dots as multifunctional nanovehicles for dual-modal targeted imaging and chemotherapy. <i>Acta Biomaterialia</i> , 2016, 46, 151-164. | 4.1 | 90 |
| 51 | Oxygen-implanted induced formation of oxide layer enhances blood compatibility on titanium for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 68, 523-529. | 3.8 | 17 |
| 52 | Sleep bruxism: an updated review of an old problem. <i>Acta Odontologica Scandinavica</i> , 2016, 74, 328-334. | 0.9 | 37 |
| 53 | Importance of dual delivery systems for bone tissue engineering. <i>Journal of Controlled Release</i> , 2016, 225, 152-169. | 4.8 | 146 |
| 54 | Osseointegration of titanium implants with SLAffinity treatment: a histological and biomechanical study in miniature pigs. <i>Clinical Oral Investigations</i> , 2016, 20, 1515-1524. | 1.4 | 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. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2016, 30, 3035-3049. | 1.3 | 10 |
| 56 | Biofabrication of bone tissue: approaches, challenges and translation for bone regeneration. <i>Biomaterials</i> , 2016, 83, 363-382. | 5.7 | 483 |
| 57 | 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. | 1.6 | 9 |
| 58 | Surface modification induced phase transformation and structure variation on the rapidly solidified recast layer of titanium. <i>Materials Characterization</i> , 2015, 106, 463-469. | 1.9 | 23 |
| 59 | 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. | 0.8 | 6 |
| 60 | 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. | 2.5 | 51 |
| 61 | D03 Ordered Phase Strengthening in Dual Phase Twinning-Induced Plasticity Steel. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2085-2090. | 1.2 | 5 |
| 62 | Surface, Biocompatible and Hemocompatible Properties of Magnesium Amorphous Titanium Oxide Film. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 341-350. | 1.1 | 6 |
| 63 | Comparative In Vitro Osteoinductivity Study of HA and β -TCP/HA Bicalcium Phosphate. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 192-198. | 1.1 | 4 |
| 64 | 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. | 0.9 | 2 |
| 65 | An Immunomodulatory Protein (Ling Zhi-8) from a <i>Ganoderma lucidum</i> Induced Acceleration of Wound Healing in Rat Liver Tissues after Monopolar Electrosurgery. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-12. | 0.5 | 20 |
| 66 | Development of 3D In Vitro Technology for Medical Applications. <i>International Journal of Molecular Sciences</i> , 2014, 15, 17938-17962. | 1.8 | 82 |
| 67 | Polymeric nanoparticles for therapy and imaging. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1216-1225. | 1.6 | 32 |
| 68 | 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. | 0.5 | 7 |
| 69 | Comparison of Cell Response and Surface Characteristics on Titanium Implant with SLA and SLAfinity Functionalization. <i>Journal of the Electrochemical Society</i> , 2014, 161, G15-G20. | 1.3 | 26 |
| 70 | Development of bovine serum albumin-modified hybrid nanoclusters for magnetofluorescence imaging and drug delivery. <i>RSC Advances</i> , 2014, 4, 32762-32772. | 1.7 | 27 |
| 71 | 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. | 1.3 | 36 |
| 72 | 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. | 2.6 | 7 |

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|----|--|-----|-----------|
| 73 | The Effect of pH Value on Phase Transformation of Calcium Phosphate Cement. International Journal of Applied Ceramic Technology, 2014, 11, 364-370. | 1.1 | 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. | 1.1 | 121 |
| 75 | Biodegradable nanoparticles for gene therapy technology. Journal of Nanoparticle Research, 2013, 15, 1. | 0.8 | 28 |
| 76 | Antibacterial nanostructured composite films for biomedical applications: microstructural characteristics, biocompatibility, and antibacterial mechanisms. Biofouling, 2013, 29, 295-305. | 0.8 | 42 |
| 77 | Research on cell behavior related to anodized and hydrothermally treated titanium surface. Applied Surface Science, 2013, 271, 1-6. | 3.1 | 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. | 1.9 | 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. | 2.1 | 26 |
| 80 | The Effect of Titanium With Electrochemical Anodization on the Response of the Adherent Osteoblast-Like Cell. Implant Dentistry, 2012, 21, 344-349. | 1.7 | 23 |
| 81 | Magnetic Interaction between Surface-Engineered Rare-Earth Atomic Spins. Physical Review X, 2012, 2, . | 2.8 | 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. | 0.4 | 0 |
| 83 | Preparation of poly(ethylene glycol) methacrylate coated CuInS ₂ /ZnS quantum dots and their use in cell staining. RSC Advances, 2012, 2, 6018. | 1.7 | 20 |
| 84 | Well aligned ultrasharp nanotip arrays for high-efficiency field emission. , 2011, , . | | 0 |
| 85 | Synthesis of CuInSe ₂ ternary nanostructures: a combined oriented attachment and ligand protection strategy. CrystEngComm, 2011, 13, 4236. | 1.3 | 17 |
| 86 | Silica nanohybrids integrated with CuInS ₂ /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. | 3.1 | 42 |
| 88 | Effect of collagen on the mechanical properties of hydroxyapatite coatings. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 618-624. | 1.5 | 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. | 0.8 | 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. | 2.1 | 21 |

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|-----|---|-----|-----------|
| 91 | 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. | 2.8 | 41 |
| 92 | Effect of O ₂ -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. | 0.4 | 6 |
| 93 | Preparation of bioactive amorphous-like titanium oxide layer on titanium by plasma oxidation treatment. <i>Applied Surface Science</i> , 2008, 255, 2046-2051. | 3.1 | 51 |
| 94 | 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. | 1.3 | 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. <i>Materials Transactions</i> , 2007, 48, 3164-3169. | 0.4 | 2 |
| 97 | Effects of Chemical and Heat Treatments on Surface Characteristics and Biocompatibility of Titanium-Niobium Alloys. <i>Materials Transactions</i> , 2007, 48, 2978-2985. | 0.4 | 7 |
| 98 | 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. | 1.3 | 30 |
| 99 | Effect of nano-titanium hydride on formation of multi-nanoporous TiO ₂ film on Ti. <i>Applied Surface Science</i> , 2007, 253, 3678-3682. | 3.1 | 35 |
| 100 | Effect of Hydrogen on Formation of Nanoporous TiO ₂ by Anodization with Hydrogen-Fluoride Pretreatment. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, D25. | 2.2 | 13 |
| 101 | Novel multilayered Ti/TiN diffusion barrier for Al metallization. <i>Journal of Electronic Materials</i> , 2005, 34, 1150-1156. | 1.0 | 26 |
| 102 | Effects of Nitrogen Plasma Treatment on Tantalum Diffusion Barriers in Copper Metallization. <i>Journal of the Electrochemical Society</i> , 2003, 150, G83. | 1.3 | 45 |