

# Kenneth Welch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9356528/publications.pdf>

Version: 2024-02-01

34  
papers

754  
citations

516710

16  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Catalysis for Engineering Bioinspired, Lignin-Based, Long-Lasting, Adhesive, Self-Mending, Antimicrobial Hydrogels. <i>ACS Nano</i> , 2020, 14, 17004-17017.	14.6	101
2	A Method for Quantitative Determination of Biofilm Viability. <i>Journal of Functional Biomaterials</i> , 2012, 3, 418-431.	4.4	81
3	Oxidative power of aqueous non-irradiated TiO <sub>2</sub> -H <sub>2</sub> O <sub>2</sub> suspensions: Methylene blue degradation and the role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 9-15.	20.2	57
4	Dental adhesives with bioactive and on-demand bactericidal properties. <i>Dental Materials</i> , 2010, 26, 491-499.	3.5	52
5	Photocatalytic Antibacterial Effects Are Maintained on Resin-Based TiO <sub>2</sub> Nanocomposites after Cessation of UV Irradiation. <i>PLoS ONE</i> , 2013, 8, e75929.	2.5	52
6	Photocatalytic and antimicrobial properties of surgical implant coatings of titanium dioxide deposited through cathodic arc evaporation. <i>Biotechnology Letters</i> , 2012, 34, 2299-2305.	2.2	46
7	Titanium surface modification to enhance antibacterial and bioactive properties while retaining biocompatibility. <i>Materials Science and Engineering C</i> , 2019, 96, 272-279.	7.3	44
8	Reactive combinatorial synthesis and characterization of a gradient Ag@Ti oxide thin film with antibacterial properties. <i>Acta Biomaterialia</i> , 2015, 11, 503-510.	8.3	39
9	Electrochemically Active, Compressible, and Conducting Silk Fibroin Hydrogels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9310-9317.	3.7	27
10	Disinfection Kinetics and Contribution of Reactive Oxygen Species When Eliminating Bacteria with TiO <sub>2</sub> -Induced Photocatalysis. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2014, 05, 200-209.	0.5	25
11	Effect of deposition parameters on the photocatalytic activity and bioactivity of TiO <sub>2</sub> thin films deposited by vacuum arc on Ti-6Al-4V substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1078-1085.	3.4	22
12	Supersaturation of poorly soluble drugs induced by mesoporous magnesium carbonate. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 468-474.	4.0	22
13	Synergetic inactivation of <i>Staphylococcus epidermidis</i> and <i>Streptococcus mutans</i> in a TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV system. <i>Biomatter</i> , 2013, 3, .	2.6	19
14	Stability and prospect of UV/H <sub>2</sub> O <sub>2</sub> activated titania films for biomedical use. <i>Applied Surface Science</i> , 2013, 285, 317-323.	6.1	18
15	Enhanced release of poorly water-soluble drugs from synergy between mesoporous magnesium carbonate and polymers. <i>International Journal of Pharmaceutics</i> , 2017, 525, 183-190.	5.2	18
16	3D-Printed Mesoporous Carrier System for Delivery of Poorly Soluble Drugs. <i>Pharmaceutics</i> , 2021, 13, 1096.	4.5	17
17	Investigation of the Antibacterial Effect of Mesoporous Magnesium Carbonate. <i>ACS Omega</i> , 2016, 1, 907-914.	3.5	13
18	Synthesis and characterization of amorphous magnesium carbonate nanoparticles. <i>Materials Chemistry and Physics</i> , 2019, 224, 301-307.	4.0	13

#	ARTICLE	IF	CITATIONS
19	Amine-functionalised mesoporous magnesium carbonate: Dielectric spectroscopy studies of interactions with water and stability. <i>Materials Chemistry and Physics</i> , 2018, 216, 332-338.	4.0	11
20	Amorphous magnesium carbonate nanoparticles with strong stabilizing capability for amorphous ibuprofen. <i>International Journal of Pharmaceutics</i> , 2018, 548, 515-521.	5.2	10
21	Determining the static dielectric permittivity of ion conducting materials when obscured by electrode polarization. <i>Applied Physics Letters</i> , 2008, 93, 092901.	3.3	9
22	Multifunctional Polymer-Free Mineral Plastic Adhesives Formed by Multiple Noncovalent Bonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7403-7410.	8.0	9
23	Organic degradation potential of a TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV-vis system for dental applications. <i>Journal of Dentistry</i> , 2017, 67, 53-57.	4.1	8
24	Dielectric Spectroscopy Study of Water Behavior in Calcined Upsalite: A Mesoporous Magnesium Carbonate without Organic Surface Groups. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15680-15688.	3.1	7
25	Evaluation of an alkali-treated and hydroxyapatite-coated orthopedic implant loaded with tobramycin. <i>Journal of Biomaterials Applications</i> , 2019, 34, 699-720.	2.4	7
26	Photocatalysis induces bioactivity of an organic polymer based material. <i>RSC Advances</i> , 2014, 4, 57715-57723.	3.6	6
27	Molecular Dynamics of a Biodegradable Biomimetic Ionomer Studied by Broadband Dielectric Spectroscopy. <i>Langmuir</i> , 2007, 23, 10209-10215.	3.5	4
28	Photocatalytic activity of low temperature oxidized Ti <sub>6</sub> Al <sub>4</sub> . <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1173-1180.	3.6	4
29	In vitro antibacterial properties and UV induced response from Staphylococcus epidermidis on Ag/Ti oxide thin films. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 49.	3.6	4
30	Biomimetic Hydroxyapatite Coated Titanium Screws Demonstrate Rapid Implant Stabilization and Safe Removal & In-Vivo. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2015, 06, 20-35.	0.5	4
31	Enhanced UV protection and water adsorption properties of transparent poly(methyl methacrylate) films through incorporation of amorphous magnesium carbonate nanoparticles. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	3
32	Thromboinflammation as bioactivity assessment of H <sub>2</sub> O <sub>2</sub> -alkali modified titanium surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 66.	3.6	2
33	Environment-Induced Surface Dynamics of a Biomimetic Ionomer Studied Using in Situ Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11573-11579.	2.6	0
34	Dynamics of water confined in mesoporous magnesium carbonate. <i>Journal of Chemical Physics</i> , 2016, 145, 234503.	3.0	0