

Manuela Sonja Killian

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,386
citations

257450

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49
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49
docs citations

49
times ranked

4430
citing authors

#	ARTICLE	IF	CITATIONS
1	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	12.6	554
2	Effect of B and Cr on the high temperature oxidation behaviour of novel β/β^{\prime} -strengthened Co-base superalloys. <i>Corrosion Science</i> , 2011, 53, 2713-2720.	6.6	151
3	Physical Vapor Deposition of [EMIM][Tf ₂ N]: A New Approach to the Modification of Surface Properties with Ultrathin Ionic Liquid Films. <i>ChemPhysChem</i> , 2008, 9, 2185-2190.	2.1	140
4	Surface Characterization of Functionalized Imidazolium-Based Ionic Liquids. <i>Langmuir</i> , 2008, 24, 9500-9507.	3.5	126
5	TiO ₂ Nanotubes: Nitrogen Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3763-3767.	13.8	119
6	Synergistic Control of Mesenchymal Stem Cell Differentiation by Nanoscale Surface Geometry and Immobilized Growth Factors on TiO ₂ Nanotubes. <i>Small</i> , 2012, 8, 98-107.	10.0	118
7	Incorporation of bioactive glass nanoparticles in electrospun PCL/chitosan fibers by using benign solvents. <i>Bioactive Materials</i> , 2018, 3, 55-63.	15.6	103
8	Protein interactions with layers of TiO ₂ nanotube and nanopore arrays: Morphology and surface charge influence. <i>Acta Biomaterialia</i> , 2016, 45, 357-366.	8.3	98
9	Ta-Doped TiO ₂ Nanotubes for Enhanced Solar-Light Photoelectrochemical Water Splitting. <i>Chemistry - A European Journal</i> , 2013, 19, 5841-5844.	3.3	87
10	The effect of nickel and silicon addition on some oxidation properties of novel Co-based high temperature alloys. <i>Corrosion Science</i> , 2013, 69, 43-49.	6.6	75
11	Anodic Nanotubular/porous Hematite Photoanode for Solar Water Splitting: Substantial Effect of Iron Substrate Purity. <i>ChemSusChem</i> , 2014, 7, 934-940.	6.8	64
12	Protein interactions with corroding metal surfaces: comparison of Mg and Fe. <i>Faraday Discussions</i> , 2015, 180, 347-360.	3.2	52
13	Effect of acidic etching and fluoride treatment on corrosion performance in Mg alloy AZ91D (MgAlZn). <i>Electrochimica Acta</i> , 2009, 55, 250-257.	5.2	51
14	Functionalization of Metallic Magnesium with Protein Layers via Linker Molecules. <i>Langmuir</i> , 2010, 26, 12044-12048.	3.5	48
15	ToF-SIMS and XPS Studies of the Adsorption Characteristics of a Zn-Porphyrin on TiO ₂ . <i>Langmuir</i> , 2010, 26, 3531-3538.	3.5	43
16	Electrochemical polymerization and characterization of polypyrrole on Mg-Al alloy (AZ91D). <i>Synthetic Metals</i> , 2011, 161, 360-364.	3.9	42
17	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2015, 8, 2615-2620.	6.8	40
18	Fibronectin Functionalized Electrospun Fibers by Using Benign Solvents: Best Way to Achieve Effective Functionalization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 68.	4.1	40

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19	Overcoming Interfacial Losses in Solution-Processed Organic Multi-Junction Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601959.	19.5	39
20	Interaction of Bovine Serum Albumin and Lysozyme with Stainless Steel Studied by Time-of-Flight Secondary Ion Mass Spectrometry and X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2012, 28, 16306-16317.	3.5	37
21	The effect of grain boundaries on high temperature oxidation of new γ -strengthened Co-Al-W superalloys. <i>Corrosion Science</i> , 2014, 79, 29-33.	6.6	36
22	Topographical study of TiO ₂ nanostructure surface for photocatalytic hydrogen production. <i>Electrochimica Acta</i> , 2015, 179, 423-430.	5.2	28
23	TiO ₂ Nanotubes: Nitrogen Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ -Evolution Activity. <i>Angewandte Chemie</i> , 2016, 128, 3827-3831.	2.0	26
24	Protein Denaturation Detected by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Langmuir</i> , 2011, 27, 7510-7515.	3.5	25
25	Key factors for an improved lithium ion storage capacity of anodic TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2016, 198, 56-65.	5.2	24
26	Albumin coating on magnesium via linker molecules—Comparing different coating mechanisms. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 586-594.	5.0	21
27	Photocatalytic properties of in situ doped TiO ₂ -nanotubes grown by rapid breakdown anodization. <i>Catalysis Science and Technology</i> , 2013, 3, 1765.	4.1	21
28	Alternating Current Electrophoretic Deposition for the Immobilization of Antimicrobial Agents on Titanium Implant Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8533-8546.	8.0	21
29	Controlling the diameter of aligned single-walled carbon nanotubes on quartz via catalyst reduction time. <i>Carbon</i> , 2015, 95, 452-459.	10.3	20
30	Interface Chemistry and Molecular Bonding of Functional Ethoxysilane-Based Self-Assembled Monolayers on Magnesium Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9006-9014.	8.0	16
31	Suppressing the Surface Recombination and Tuning the Open-Circuit Voltage of Polymer/Fullerene Solar Cells by Implementing an Aggregative Ternary Compound. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28803-28811.	8.0	15
32	Influence of bioactive linker molecules on protein adsorption. <i>Surface and Interface Analysis</i> , 2014, 46, 193-197.	1.8	14
33	Embedded Palladium Activation as a Facile Method for TiO ₂ -Nanotube Nanoparticle Decoration: Cu ₂ O-Induced Visible-Light Photoactivity. <i>ChemistryOpen</i> , 2013, 2, 21-24.	1.9	10
34	Metal-Phosphate Bilayers for Anatase Surface Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6661-6672.	8.0	10
35	A High-Field Anodic NiO Nanosponge with Tunable Thickness for Application in p-Type Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7865-7872.	5.1	9
36	Porphyrins as Multifunctional Interconnects in Networks of ZnO Nanoparticles and their Application in Dye-Sensitized Solar Cells. <i>ChemPhotoChem</i> , 2018, 2, 213-222.	3.0	8

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37	Stabilization of dry protein coatings with compatible solutes. <i>Biointerphases</i> , 2018, 13, 06E401.	1.6	8
38	Electronically Tuned Asymmetric <i>meso</i> -Substituted Porphyrins for p-Type Solar Cells. <i>ChemPlusChem</i> , 2019, 84, 766-771.	2.8	8
39	Optical properties of silicon-implanted polycrystalline diamond membranes. <i>Carbon</i> , 2021, 174, 295-304.	10.3	8
40	Wetting behavior of zirconia nanotubes. <i>RSC Advances</i> , 2021, 11, 29585-29589.	3.6	7
41	Tuning Anatase Surface Reactivity toward Carboxylic Acid Anchor Groups. <i>Langmuir</i> , 2017, 33, 13913-13922.	3.5	6
42	Novel Fully Organic Water Oxidation Electrocatalysts: A Quest for Simplicity. <i>ACS Omega</i> , 2018, 3, 2602-2608.	3.5	6
43	Zirconia nanotube coatings - UV-resistant superhydrophobic surfaces. <i>Surfaces and Interfaces</i> , 2021, 26, 101357.	3.0	5
44	Functionalization strategies to facilitate multi-depth, multi-molecule modifications of nanostructured oxides for triggered release applications. <i>Surface Science</i> , 2022, 719, 122024.	1.9	5
45	Adsorption characteristics of a Zn-Porphyrin on MgO surfaces. <i>Surface and Interface Analysis</i> , 2013, 45, 194-197.	1.8	2