

# Nico Scharnagl

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

1,821  
citations

23  
h-index

42  
g-index

62  
ext. papers

2,096  
ext. citations

4.8  
avg. IF

4.72  
L-index

#	Paper	IF	Citations
59	Highly selective isoporous block copolymer membranes with tunable polyelectrolyte brushes in soft nanochannels. <i>Journal of Membrane Science</i> , <b>2022</b> , 646, 120266	9.6	1
58	Exploring the corrosion inhibition mechanism of 8-hydroxyquinoline for a PEO-coated magnesium alloy. <i>Corrosion Science</i> , <b>2022</b> , 203, 110344	6.8	3
57	New relations between modification degree, swelling and impedance in anticorrosion chitosan-derivative coatings on magnesium alloy AZ31. <i>Carbohydrate Polymers</i> , <b>2022</b> , 119617	10.3	0
56	Effect of 6-Aminohexanoic Acid Released from Its Aluminum Tri-Polyphosphate Intercalate (ATP-6-AHA) on the Corrosion Protection Mechanism of Steel in 3.5% Sodium Chloride Solution. <i>Corrosion and Materials Degradation</i> , <b>2021</b> , 2, 666-677	2.6	0
55	Mg Biodegradation Mechanism Deduced from the Local Surface Environment under Simulated Physiological Conditions. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100053	10.1	4
54	Verbesserte Hydrophilie von Hohlfasermembranen mittels funktionalisierter Trennschicht für die Ultrafiltration. <i>Chemie-Ingenieur-Technik</i> , <b>2021</b> , 93, 1451-1456	0.8	
53	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 695-712	10.8	11
52	Durability of Metal-Composite Friction Spot Joints under Environmental Conditions. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
51	Ca/In micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect. <i>Journal of Power Sources</i> , <b>2020</b> , 472, 228528	8.9	24
50	Mechanistic understanding of the corrosion behavior of Mg <sub>4</sub> Zn <sub>0.2</sub> Sn alloys: From the perspective view of microstructure. <i>Corrosion Science</i> , <b>2020</b> , 174, 108863	6.8	8
49	Hydrophilic Dual Layer Hollow Fiber Membranes for Ultrafiltration. <i>Membranes</i> , <b>2020</b> , 10,	3.8	3
48	Influence of water purity on the corrosion behavior of Mg <sub>0.5</sub> ZnX (X=Ca, Ge) alloys. <i>Corrosion Science</i> , <b>2019</b> , 153, 62-73	6.8	18
47	Effect of fluoride-mediated transformations on electrocatalytic performance of thermally treated TiO <sub>2</sub> nanotubular layers. <i>Journal of Fluorine Chemistry</i> , <b>2019</b> , 221, 34-41	2.1	2
46	The influence of the crosslinking degree on the corrosion protection properties of chitosan coatings in simulated body fluid. <i>Progress in Organic Coatings</i> , <b>2019</b> , 137, 105328	4.8	6
45	Different effects of single protein vs. protein mixtures on magnesium degradation under cell culture conditions. <i>Acta Biomaterialia</i> , <b>2019</b> , 98, 256-268	10.8	23
44	Microstructural influence on corrosion behavior of MgZnGe alloy in NaCl solution. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 783, 179-192	5.7	33
43	Exploring the effects of organic molecules on the degradation of magnesium under cell culture conditions. <i>Corrosion Science</i> , <b>2018</b> , 132, 35-45	6.8	29

42	Chitosan coatings crosslinked with genipin for corrosion protection of AZ31 magnesium alloy sheets. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 71-77	10.3	52
41	Polyolefin-Magnesium Interactions Performing Powder Injection Molding Process. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800530	3.5	1
40	Hollow Fiber Membranes of Blends of Polyethersulfone and Sulfonated Polymers. <i>Membranes</i> , <b>2018</b> , 8,	3.8	14
39	Composite surface pre-treatments: Improvement on adhesion mechanisms and mechanical performance of metal/composite friction spot joints with additional film interlayer <b>2018</b> , 94, 723-742		12
38	Conversion coating on magnesium alloy sheet (AZ31) by vanillic acid treatment: Preparation, characterization and corrosion behavior. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 738, 224-232	5.7	30
37	Sol-gel template synthesis of mesoporous carbon-doped TiO <sub>2</sub> with photocatalytic activity under visible light. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17422-17430	1.4	6
36	Synthesis of ZnO mesoporous powders and their application in dye photodegradation. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17414-17421	1.4	6
35	Characterization and corrosion behavior of binary Mg-Ga alloys. <i>Materials Characterization</i> , <b>2017</b> , 128, 85-99	3.9	32
34	Synthesis and characterization of efficient TiO <sub>2</sub> mesoporous photocatalysts. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 11526-11533	1.4	4
33	XPS analysis of the interface between AA2024-T3/CF-PPS friction spot joints. <i>Surface and Interface Analysis</i> , <b>2016</b> , 48, 706-711	1.5	11
32	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy. <i>Surface and Coatings Technology</i> , <b>2016</b> , 289, 179-185	4.4	35
31	The effect of iron re-deposition on the corrosion of impurity-containing magnesium. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1279-91	3.6	106
30	A double-layer patch design for local and controlled drug delivery as an intraoperative custom-made implant-coating technology. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2016</b> , 14, e143-53	1.8	
29	Fluoride conversion coatings for magnesium and its alloys for the biological environment <b>2015</b> , 3-21		5
28	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. <i>RSC Advances</i> , <b>2015</b> , 5, 39916-39929	3.7	64
27	Pre-Treatment and Organic Coating of Al Free Mg Alloy for Controlling Degradation Rates. <i>Materials Science Forum</i> , <b>2015</b> , 828-829, 327-333	0.4	0
26	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. <i>Surface and Coatings Technology</i> , <b>2015</b> , 269, 155-169	4.4	62
25	Plasma electrolytic oxidation/micro-arc oxidation of magnesium and its alloys <b>2015</b> , 193-234		10

24	Dye-Mediated Growth of 2D Coppercarbodiimide (CuNCN) Nanostructures and their Metamorphosis into a 3D Cu@C <sub>x</sub> N <sub>y</sub> Hybrid. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 557-560	3.1	5
23	Influence of incorporating Si <sub>3</sub> N <sub>4</sub> particles into the oxide layer produced by plasma electrolytic oxidation on AM50 Mg alloy on coating morphology and corrosion properties. <i>Journal of Magnesium and Alloys</i> , <b>2013</b> , 1, 267-274	8.8	52
22	Improving Corrosion Resistance of Mg <sub>10</sub> Gd Alloy. <i>Materials Science Forum</i> , <b>2013</b> , 765, 673-677	0.4	3
21	Electrochemical Corrosion Behaviour of WE54 Magnesium Alloy. <i>Materials Science Forum</i> , <b>2013</b> , 765, 644-647	0.4	1
20	Controlled degradation of a magnesium alloy in simulated body fluid using hydrofluoric acid treatment followed by polyacrylonitrile coating. <i>Corrosion Science</i> , <b>2012</b> , 62, 83-89	6.8	36
19	Surface functionalization of poly(ether imide) membranes with linear, methylated oligoglycerols for reducing thrombogenicity. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 1487-92	4.8	31
18	Influence of co-monomer ratio on the chemical properties and cytotoxicity of poly[acrylonitrile-co-(N-vinylpyrrolidone)] nanoparticles. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2012</b> , 10, 308-14	1.8	2
17	Adherence and viability of primary human keratinocytes and primary human dermal fibroblasts on acrylonitrile-based copolymers with different concentrations of positively charged functional groups. <i>Clinical Hemorheology and Microcirculation</i> , <b>2012</b> , 52, 391-401	2.5	7
16	Abbaubare Polymere in der Medizin. <i>Nachrichten Aus Der Chemie</i> , <b>2011</b> , 59, 117-120	0.1	
15	Experimental determination of self-diffusivities through a polymer network for single components in a mixture. <i>Journal of Membrane Science</i> , <b>2011</b> , 384, 63-71	9.6	6
14	Design principles for polymers as substratum for adherent cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8789		56
13	Different Underlying Corrosion Mechanism for Mg Bulk Alloys and Mg Thin Films. <i>Plasma Processes and Polymers</i> , <b>2009</b> , 6, S690-S694	3.4	12
12	Influences of local polymer-solvent interaction on dynamics of phenyl ring rotation and its role on photophysics of conjugated polymer. <i>European Polymer Journal</i> , <b>2007</b> , 43, 478-487	5.2	11
11	Nanostructure of Nafion membrane material as a function of mechanical load studied by SAXS. <i>Polymer</i> , <b>2003</b> , 44, 4853-4861	3.9	45
10	SAXS and the Gas Transport in Polyether-block-polyamide Copolymer Membranes. <i>Macromolecules</i> , <b>2003</b> , 36, 749-758	5.5	94
9	Polyacrylonitrile (PAN) membranes for ultra- and microfiltration. <i>Desalination</i> , <b>2001</b> , 139, 191-198	10.3	155
8	Recycling of washing waters from bottle cleaning machines using membranes. <i>Desalination</i> , <b>2000</b> , 131, 55-63	10.3	12
7	Polyactones 33. The role of deprotonation in the anionic polymerization of ε-propiolactone. <i>Polymer</i> , <b>1996</b> , 37, 1405-1411	3.9	31

6	Reaktive membrancopolymere auf acrylbasis. <i>Angewandte Makromolekulare Chemie</i> , <b>1995</b> , 226, 71-87		7
5	Polyactones. 28. Syndiotactic Poly(.beta.-D,L-hydroxybutyrate) by Ring-Opening Polymerization of .beta.-D,L-Butyrolactone with Butyltin Methoxides. <i>Macromolecules</i> , <b>1994</b> , 27, 3139-3146	5-5	53
4	New polymer syntheses. 58. Alkylation of aromatic poly(pyridine ethers) and their application as membranes. <i>Macromolecules</i> , <b>1992</b> , 25, 1382-1386	5-5	8
3	Anionic and pseudoanionic polymerization of lactones - a comparison. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1990</b> , 32, 285-298		30
2	Polyactones. 17. Anionic Polymerization of D,L-Butyrolactone. <i>Journal of Macromolecular Science Part A, Chemistry</i> , <b>1989</b> , 26, 951-968		35
1	Poly(lactones). 9. Polymerization mechanism of metal alkoxide initiated polymerizations of lactide and various lactones. <i>Macromolecules</i> , <b>1988</b> , 21, 286-293	5-5	509