

# Joo Tedim

## List of Publications by Year in Descending Order

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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.

98  
papers

3,687  
citations

31  
h-index

59  
g-index

108  
ext. papers

4,223  
ext. citations

5.2  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
98	Influence of the Operating Conditions on the Release of Corrosion Inhibitors from Spray-Dried Carboxymethylcellulose Microspheres. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1800	2.6	0
97	Can the toxicity of polyethylene microplastics and engineered nanoclays on flatfish ( <i>Solea senegalensis</i> ) be influenced by the presence of each other?. <i>Science of the Total Environment</i> , <b>2022</b> , 804, 150188	10.2	2
96	"Smart" nanosensors for early detection of corrosion: Environmental behavior and effects on marine organisms.. <i>Environmental Pollution</i> , <b>2022</b> , 118973	9.3	1
95	Layered materials as nanocontainers for active corrosion protection: A brief review. <i>Applied Clay Science</i> , <b>2022</b> , 225, 106537	5.2	1
94	UV-assisted anchoring of gold nanoparticles into TiO <sub>2</sub> nanotubes for oxygen electroreduction. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 115844	4.1	
93	Ni-Fe layered double hydroxides for oxygen evolution Reaction: Impact of Ni/Fe ratio and crystallinity. <i>Materials and Design</i> , <b>2021</b> , 212, 110188	8.1	8
92	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2021</b> , 1-48	10.1	17
91	Nanostructured Black Nickel Coating as Replacement for Black Cr(VI) Finish. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3924	2.6	2
90	Corrosion protection by nanostructured coatings <b>2021</b> , 281-307		
89	The Stability and Chloride Entrapping Capacity of ZnAl-NO <sub>2</sub> LDH in High-Alkaline/Cementitious Environment. <i>Corrosion and Materials Degradation</i> , <b>2021</b> , 2, 78-99	2.6	1
88	Insights into corrosion behaviour of uncoated Mg alloys for biomedical applications in different aqueous media. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 1908-1922	5.5	0
87	Effects of nanostructure antifouling biocides towards a coral species in the context of global changes. <i>Science of the Total Environment</i> , <b>2021</b> , 799, 149324	10.2	0
86	Experimental characterisation and modelling of mechanical behaviour of microcapsules. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 13457-13471	4.3	6
85	Rhodamine-loaded TiO <sub>2</sub> particles for detection of polymer coating UV degradation. <i>Materials Today: Proceedings</i> , <b>2020</b> , 20, 320-328	1.4	6
84	Environmental behaviour and ecotoxicity of cationic surfactants towards marine organisms. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122299	12.8	37
83	Elucidating Structure-Property Relationships in Aluminum Alloy Corrosion Inhibitors by Machine Learning. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5624-5635	3.8	14
82	Emerging trends in smart nanocontainers for corrosion applications <b>2020</b> , 385-398		5

81	Use of ZnAl-Layered Double Hydroxide (LDH) to Extend the Service Life of Reinforced Concrete. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
80	Hexacyanoferrate-Intercalated Layered Double Hydroxides as Nanoadditives for the Detection of Early-Stage Corrosion of Steel: The Revival of Prussian blue. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 2063-2073	2.3	4
79	Chitosan Microspheres as Carriers for pH-Indicating Species in Corrosion Sensing. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 1900662	3.9	6
78	Anticorrosion thin film smart coatings for aluminum alloys <b>2020</b> , 429-454		4
77	Unveiling the local structure of 2-mercaptobenzothiazole intercalated in (Zn2Al) layered double hydroxides. <i>Applied Clay Science</i> , <b>2020</b> , 198, 105842	5.2	2
76	Gemini Surfactant as a Template Agent for the Synthesis of More Eco-Friendly Silica Nanocapsules. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8085	2.6	5
75	Synthesis and characterization of gordaite, osakaite and simonkolleite by different methods: Comparison, phase interconversion, and potential corrosion protection applications. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 291, 121595	3.3	4
74	Layered double hydroxides (LDHs) as functional materials for the corrosion protection of aluminum alloys: A review. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100857	6.6	26
73	Benzotriazole encapsulation in spray-dried carboxymethylcellulose microspheres for active corrosion protection of carbon steel. <i>Progress in Organic Coatings</i> , <b>2020</b> , 138, 105329	4.8	13
72	Layered Double Hydroxide Clusters as Precursors of Novel Multifunctional Layers: A Bottom-Up Approach. <i>Coatings</i> , <b>2019</b> , 9, 328	2.9	9
71	Electrosynthesis of Ordered TiO2 Nanotubular Layers in Deep Eutectic Solvents and Their Properties. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, H377-H386	3.9	2
70	Toxicity of engineered micro- and nanomaterials with antifouling properties to the brine shrimp <i>Artemia salina</i> and embryonic stages of the sea urchin <i>Paracentrotus lividus</i> . <i>Environmental Pollution</i> , <b>2019</b> , 251, 530-537	9.3	19
69	Toxicity of innovative anti-fouling nano-based solutions to marine species. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1418-1429	7.1	19
68	Functionalised novel gemini surfactants as corrosion inhibitors for mild steel in 50 mM NaCl: Experimental and theoretical insights. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 580, 123699	5.1	24
67	Synergetic active corrosion protection of AA2024-T3 by 2D- anionic and 3D-cationic nanocontainers loaded with Ce and mercaptobenzothiazole. <i>Corrosion Science</i> , <b>2018</b> , 135, 35-45	6.8	46
66	Improving the functionality and performance of AA2024 corrosion sensing coatings with nanocontainers. <i>Chemical Engineering Journal</i> , <b>2018</b> , 341, 526-538	14.7	26
65	A molecular dynamics framework to explore the structure and dynamics of layered double hydroxides. <i>Applied Clay Science</i> , <b>2018</b> , 163, 164-177	5.2	18
64	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. <i>Corrosion Science</i> , <b>2018</b> , 143, 299-313	6.8	49

63	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
62	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
61	Antimicrofouling Efficacy of Innovative Inorganic Nanomaterials Loaded with Booster Biocides. <i>Journal of Marine Science and Engineering</i> , <b>2018</b> , 6, 6	2.4	20
60	PEO Coatings with Active Protection Based on In-Situ Formed LDH-Nanocontainers. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C36-C45	3.9	50
59	Antimicrobial activity of 2-mercaptobenzothiazole released from environmentally friendly nanostructured layered double hydroxides. <i>Journal of Applied Microbiology</i> , <b>2017</b> , 122, 1207-1218	4.7	14
58	Corrosion inhibition of copper in aqueous chloride solution by 1H-1,2,3-triazole and 1,2,4-triazole and their combinations: electrochemical, Raman and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6113-6129	3.6	44
57	Effects of a novel anticorrosion engineered nanomaterial on the bivalve <i>Ruditapes philippinarum</i> . <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1064-1076	7.1	14
56	Efficacy and Ecotoxicity of Novel Anti-Fouling Nanomaterials in Target and Non-Target Marine Species. <i>Marine Biotechnology</i> , <b>2017</b> , 19, 164-174	3.4	26
55	How Density Functional Theory Surface Energies May Explain the Morphology of Particles, Nanosheets, and Conversion Films Based on Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2211-2220	3.8	24
54	Hierarchically organized LiAl-LDH nano-flakes: a low-temperature approach to seal porous anodic oxide on aluminum alloys. <i>RSC Advances</i> , <b>2017</b> , 7, 35357-35367	3.7	24
53	Ultra-high pressure modified cellulosic fibres with antimicrobial properties. <i>Carbohydrate Polymers</i> , <b>2017</b> , 175, 303-310	10.3	4
52	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
51	Gold nanorods induce early embryonic developmental delay and lethality in zebrafish ( <i>Danio rerio</i> ). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2017</b> , 80, 672-687	3.2	16
50	Light-Induced Proton Pumping with a Semiconductor: Vision for Photoproton Lateral Separation and Robust Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24282-24289	9.5	20
49	CHARACTERIZATION OF SURFACE SPECIES ON MESOPOROUS TiO <sub>2</sub> PREPARED BY TiC OXIDATION <b>2017</b> , 311-314		
48	Corrosion protection of AA2024 by sol-gel coatings modified with MBT-loaded polyurea microcapsules. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 1108-1117	14.7	87
47	Control of crystallite and particle size in the synthesis of layered double hydroxides: Macromolecular insights and a complementary modeling tool. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 468, 86-94	9.3	51
46	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazololate anions in layered double hydroxides: In situ X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 233, 158-165	3.3	70

45	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers. <i>RSC Advances</i> , <b>2016</b> , 6, 13942-13952	3.7	61
44	Brittle Coating Layers for Impact Detection in CFRP <b>2016</b> , 725-733		
43	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results. <i>Electrochimica Acta</i> , <b>2016</b> , 210, 215-224	6.7	67
42	A computational UV-Vis spectroscopic study of the chemical speciation of 2-mercaptobenzothiazole corrosion inhibitor in aqueous solution. <i>Theoretical Chemistry Accounts</i> , <b>2016</b> , 135, 1	1.9	14
41	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. <i>RSC Advances</i> , <b>2015</b> , 5, 39916-39929	3.7	64
40	Chitosan as a smart coating for corrosion protection of aluminum alloy 2024: A review. <i>Progress in Organic Coatings</i> , <b>2015</b> , 89, 348-356	4.8	59
39	A novel approach for immobilization of polyhexamethylene biguanide within silica capsules. <i>RSC Advances</i> , <b>2015</b> , 5, 92656-92663	3.7	11
38	Incorporation of biocides in nanocapsules for protective coatings used in maritime applications. <i>Chemical Engineering Journal</i> , <b>2015</b> , 270, 150-157	14.7	51
37	Silica-Based Nanocoating Doped by Layered Double Hydroxides to Enhance the Paperboard Barrier Properties. <i>World Journal of Nano Science and Engineering</i> , <b>2015</b> , 05, 126-139	0	4
36	Influence of preparation conditions of Layered Double Hydroxide conversion films on corrosion protection. <i>Electrochimica Acta</i> , <b>2014</b> , 117, 164-171	6.7	106
35	Active sensing coating for early detection of corrosion processes. <i>RSC Advances</i> , <b>2014</b> , 4, 17780	3.7	46
34	Smart self-healing coatings for corrosion protection of aluminium alloys <b>2014</b> , 224-274		6
33	Active Corrosion Protection by Nanoparticles and Conversion Films of Layered Double Hydroxides. <i>Corrosion</i> , <b>2014</b> , 70, 436-445	1.8	19
32	Effect of Surface Treatment on the Performance of LDH Conversion Films. <i>ECS Electrochemistry Letters</i> , <b>2013</b> , 3, C4-C8		16
31	Thermal Behavior of Layered Double Hydroxide ZnAl <sub>2</sub> Pyrovanadate: Composition, Structure Transformations, and Recovering Ability. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4152-4157	3.8	24
30	Nanocontainer-based corrosion sensing coating. <i>Nanotechnology</i> , <b>2013</b> , 24, 415502	3.4	54
29	Pseudo-crown functionalized copper salen complexes forming electroactive polymers: Rationalization of Ba <sup>2+</sup> interaction using XAS and DFT. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 688, 308-319	4.1	6
28	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5811-5823	3.8	27

27	Functionalized chitosan-based coatings for active corrosion protection. <i>Surface and Coatings Technology</i> , <b>2013</b> , 226, 51-59	4.4	46
26	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. <i>ECS Electrochemistry Letters</i> , <b>2013</b> , 2, C19-C22		51
25	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molybdate nanocontainers filled with corrosion inhibitors. <i>Electrochimica Acta</i> , <b>2012</b> , 60, 31-40	6.7	222
24	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. <i>Progress in Organic Coatings</i> , <b>2012</b> , 75, 8-13	4.8	105
23	Silica nanocontainers for active corrosion protection. <i>Nanoscale</i> , <b>2012</b> , 4, 1287-98	7.7	170
22	Ion recognition properties of poly[Cu(3-MeOsald)] films. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2849-2860	2.6	6
21	Self-healing nanocoatings for corrosion control <b>2012</b> , 213-263		11
20	ZnAl layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , <b>2012</b> , 55, 1-4	6.8	201
19	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. <i>Corrosion Science</i> , <b>2012</b> , 58, 41-51	6.8	39
18	Smart coatings for active corrosion protection based on multi-functional micro and nanocontainers. <i>Electrochimica Acta</i> , <b>2012</b> , 82, 314-323	6.7	281
17	Comparative X-ray diffraction and infrared spectroscopy study of ZnAl layered double hydroxides: Vanadate vs nitrate. <i>Chemical Physics</i> , <b>2012</b> , 397, 102-108	2.3	45
16	Nanostructured LDH-container layer with active protection functionality. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15464		144
15	Modulating spectroelectrochemical properties of [Ni(salen)] polymeric films at molecular level. <i>Synthetic Metals</i> , <b>2011</b> , 161, 680-691	3.6	24
14	Self-healing protective coatings with green chitosan based pre-layer reservoir of corrosion inhibitor. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4805		119
13	Advanced protective coatings for aeronautical applications <b>2011</b> , 235-279		4
12	Enhancement of active corrosion protection via combination of inhibitor-loaded nanocontainers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1528-35	9.5	266
11	Solid-State Electrochromic Cells Based on [M(salen)]-Derived Electroactive Polymer Films. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, J114		14
10	Structural and electrochemical characterisation of [Pd(salen)]-type conducting polymer films. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7726-7736	6.7	24

9	Anion exchange in ZnAl layered double hydroxides: In situ X-ray diffraction study. <i>Chemical Physics Letters</i> , <b>2010</b> , 495, 73-76	2.5	51
8	Novel inorganic host layered double hydroxides intercalated with guest organic inhibitors for anticorrosion applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2353-62	9.5	235
7	Viscoelastic characterization of benzo-crown ether functionalized electroactive films. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 268-77	3.6	5
6	Unusual coordination environment for barium cations in ion recognition conducting poly[Ni(salen)(receptor)] films. <i>Langmuir</i> , <b>2008</b> , 24, 8998-9005	4	19
5	Preparation and characterization of poly[Ni(salen)(crown receptor)]/multi-walled carbon nanotube composite films. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 6722-6731	6.7	25
4	Correlating structure and ion recognition properties of [Ni(salen)]-based polymer films. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 610, 46-56	4.1	30
3	Online integrated solution to collect data, generate information and manage events in the human biomonitoring field. <i>International Journal of Hygiene and Environmental Health</i> , <b>2007</b> , 210, 403-6	6.9	3
2	Third-Order Nonlinear Optical Properties of DA-salen-Type Nickel(II) and Copper(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 3425-3433	2.3	42
1	Design of 2-cyclopentenone derivatives with enhanced NF- $\kappa$ B: DNA binding inhibitory properties. <i>Computational and Theoretical Chemistry</i> , <b>2004</b> , 685, 73-82		3