Luchun Yan

List of Publications by Year
in descending order

31 papers	944 citations	471371 17 h-index	454834 30 g-index
31 all docs	31 docs citations	31 times ranked	749 citing authors

#	Article	IF	Citations
1	Assessment of the health risks and odor concentration of volatile compounds from a municipal solid waste landfill in China. Chemosphere, 2018, 202, 1-8.	4.2	100
2	Design and fabrication of enhanced corrosion resistance Zn-Al layered double hydroxides films based anion-exchange mechanism on magnesium alloys. Applied Surface Science, 2017, 404, 246-253.	3.1	95
3	Evaluation of the chemical composition and correlation between the calculated and measured odour concentration of odorous gases from a landfill in Beijing, China. Atmospheric Environment, 2017, 164, 337-347.	1.9	93
4	Assessment of odor activity value coefficient and odor contribution based on binary interaction effects in waste disposal plant. Atmospheric Environment, 2015, 103, 231-237.	1.9	68
5	Improvement of the machine learning-based corrosion rate prediction model through the optimization of input features. Materials and Design, 2021, 198, 109326.	3.3	65
6	One-Step in Situ Synthesis of Reduced Graphene Oxide/Znâ€“Al Layered Double Hydroxide Film for Enhanced Corrosion Protection of Magnesium Alloys. Langmuir, 2019, 35, 6312-6320.	1.6	63
7	Corrosion rate prediction and influencing factors evaluation of low-alloy steels in marine atmosphere using machine learning approach. Science and Technology of Advanced Materials, 2020, 21, 359-370.	2.8	55
8	Inhibition of the corrosion of X70 and Q235 steel in CO 2 -saturated brine by imidazoline-based inhibitor. Journal of Electroanalytical Chemistry, 2017, 791, 83-94.	1.9	53
9	Residual stress and microstructure effects on mechanical, tribological and electrical properties of TiN coatings on 304 stainless steel. Ceramics International, 2018, 44, 15851-15858.	2.3	45
10	The Regular Interaction Pattern among Odorants of the Same Type and Its Application in Odor Intensity Assessment. Sensors, 2017, 17, 1624.	2.1	40
11	Use of a Modified Vector Model for Odor Intensity Prediction of Odorant Mixtures. Sensors, 2015, 15, 5697-5709.	2.1	27
12	Study of the stability of Î±-Fe/MnS interfaces from first principles and experiment. Applied Surface Science, 2020, 501, 144017.	3.1	26
13	Study on the synergistic effect of UV/Fenton oxidation and mass transfer enhancement with addition of activated carbon in the bubble column reactor. Chemical Engineering Journal, 2018, 336, 82-91.	6.6	20
14	Residual stress and warpage of AMB ceramic substrate studied by finite element simulations. Microelectronics Reliability, 2019, 98, 49-55.	0.9	20
15	Comparative study of Ti and Cr adhesion to the AlN ceramic: Experiments and calculations. Applied Surface Science, 2018, 457, 856-862.	3.1	19
16	Thermal ratchetting effect of AMB-AlN ceramic substrate: Experiments and calculations. Ceramics International, 2019, 45, 14669-14674.	2.3	18
17	Characteristic analysis for odor gas emitted from food waste anaerobic fermentation in the pretreatment workshop. Journal of the Air and Waste Management Association, 2013, 63, 1173-1181.	0.9	17
18	An Odor Interaction Model of Binary Odorant Mixtures by a Partial Differential Equation Method. Sensors, 2014, 14, 12256-12270.	2.1	17

#	Article	IF	Citations
19	Interaction between Cu and Cr coadsorption on MnS inclusions in low alloy steels. Applied Surface Science, 2019, 471, 425-434.	3.1	15
20	Continuous degradation of BTEX in landfill gas by the UV-Fenton reaction. RSC Advances, 2016, 6, 1452-1459.	1.7	12
21	Analysis of Environmental Factors Affecting the Atmospheric Corrosion Rate of Low-Alloy Steel Using Random Forest-Based Models. Materials, 2020, 13, 3266.	1.3	12
22	In-situ stress gradient evolution and texture-dependent fracture of brittle ceramic thin films under external load. Ceramics International, 2018, 44, 8176-8183.	2.3	11
23	Finite element analysis of the effect of TiC or graphite modified composite fillers on the thermal residual stress of AMB ceramic substrates. Ceramics International, 2019, 45, 19098-19104.	2.3	11
24	Synergistic effect of Cu and Cr on pitting behavior induced by MnS inclusions in low alloy steels. Journal of Alloys and Compounds, 2021, 864, 158133.	2.8	10
25	Visual Analysis of Odor Interaction Based on Support Vector Regression Method. Sensors, 2020, 20, 1707.	2.1	6
26	Effect of 2D nanocrystalline ZnAl-LDHs films with different orientations on anticorrosion performance of magnesium alloys. Materials Letters, 2021, 293, 129708.	1.3	6
27	Study of Thermal Stress Fluctuations at the Die-Attach Solder Interface Using the Finite Element Method. Electronics (Switzerland), 2022, 11, 62.	1.8	6
28	A novel electronic nose for simultaneous quantitative determination of concentrations and odor intensity analysis of benzene, toluene and ethylbenzene mixtures. RSC Advances, 2015, 5, 78686-78694.	1.7	5
29	Research on Odor Interaction between Aldehyde Compounds via a Partial Differential Equation (PDE) Model. Sensors, 2015, 15, 2888-2901.	2.1	4
30	Microstructures and properties of Agâ€“Cuâ€“Tiâ€“In composite fillers for electronic packaging applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 11520-11528.	1.1	3
31	High-throughput technique for stress corrosion cracking susceptibility measurements based on film-induced stress. Vacuum, 2022, 203, 111275.	1.6	2