

# Shengtao Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

162  
papers

10,537  
citations

28274

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h-index

34986

98  
g-index

163  
all docs

163  
docs citations

163  
times ranked

6195  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Evaluation of Ginkgo leaf extract as an eco-friendly corrosion inhibitor of X70 steel in HCl solution. <i>Corrosion Science</i> , 2018, 133, 6-16.  | 6.6  | 517       |
| 2  | Experimental and theoretical studies of four allyl imidazolium-based ionic liquids as green inhibitors for copper corrosion in sulfuric acid. <i>Corrosion Science</i> , 2017, 119, 68-78.  | 6.6  | 466       |
| 3  | Direct Laser-Patterned Micro-Supercapacitors from Paintable MoS <sub>2</sub> Films. <i>Small</i> , 2013, 9, 2905-2910.  | 10.0 | 455       |
| 4  | Building 3D Structures of Vanadium Pentoxide Nanosheets and Application as Electrodes in Supercapacitors. <i>Nano Letters</i> , 2013, 13, 5408-5413.  | 9.1  | 343       |
| 5  | Three indazole derivatives as corrosion inhibitors of copper in a neutral chloride solution. <i>Corrosion Science</i> , 2017, 126, 295-304.   | 6.6  | 300       |
| 6  | Corrosion inhibition of mild steel in acidic solution by some oxo-triazole derivatives. <i>Corrosion Science</i> , 2009, 51, 2588-2595.   | 6.6  | 291       |
| 7  | Experimental and theoretical studies on the corrosion inhibition of copper by two indazole derivatives in 3.0% NaCl solution. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 52-59.   | 9.4  | 283       |
| 8  | Papaya leaves extract as a novel eco-friendly corrosion inhibitor for Cu in H <sub>2</sub> SO <sub>4</sub> medium. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 918-931.  | 9.4  | 275       |
| 9  | Experimental and theoretical studies of two imidazolium-based ionic liquids as inhibitors for mild steel in sulfuric acid solution. <i>Corrosion Science</i> , 2015, 95, 168-179.   | 6.6  | 268       |
| 10 | Theoretical studies of three triazole derivatives as corrosion inhibitors for mild steel in acidic medium. <i>Corrosion Science</i> , 2014, 87, 366-375.  | 6.6  | 235       |
| 11 | Adsorption and corrosion inhibition of <i>Osmanthus fragran</i> leaves extract on carbon steel. <i>Corrosion Science</i> , 2012, 63, 82-90.   | 6.6  | 223       |
| 12 | Corrosion inhibition of X65 steel in sulfuric acid by two food flavorants 2-isobutylthiazole and 1-(1,3-Thiazol-2-yl) ethanone as the green environmental corrosion inhibitors: Combination of experimental and theoretical researches. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 519-529. | 9.4  | 215       |
| 13 | Enhanced anticorrosion performance of copper by novel N-doped carbon dots. <i>Corrosion Science</i> , 2019, 161, 108193.  | 6.6  | 199       |
| 14 | A combined experimental and theoretical study of the inhibition effect of three disulfide-based flavouring agents for copper corrosion in 0.5 M sulfuric acid. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 268-280.  | 9.4  | 198       |
| 15 | Investigation of 1-butyl-3-methyl-1H-benzimidazolium iodide as inhibitor for mild steel in sulfuric acid solution. <i>Corrosion Science</i> , 2014, 80, 383-392.  | 6.6  | 190       |
| 16 | Insight into anti-corrosion nature of Betel leaves water extracts as the novel and eco-friendly inhibitors. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 287-301.   | 9.4  | 190       |
| 17 | Understanding the adsorption and anticorrosive mechanism of DNA inhibitor for copper in sulfuric acid. <i>Applied Surface Science</i> , 2019, 492, 228-238.   | 6.1  | 188       |
| 18 | Synthesis of Graphene Oxide-Based Sulfonated Oligoanilines Coatings for Synergistically Enhanced Corrosion Protection in 3.5% NaCl Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4034-4043.  | 8.0  | 187       |

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|----|---|-----|-----------|
| 19 | Experimental and theoretical studies on the inhibition properties of three diphenyl disulfide derivatives on copper corrosion in acid medium. <i>Journal of Molecular Liquids</i> , 2020, 298, 111975.  | 4.9 | 172       |
| 20 | The effect of some triazole derivatives as inhibitors for the corrosion of mild steel in 1M hydrochloric acid. <i>Applied Surface Science</i> , 2009, 255, 6757-6763.   | 6.1 | 164       |
| 21 | 2-Mercaptobenzimidazole-inbuilt metal-organic-frameworks modified graphene oxide towards intelligent and excellent anti-corrosion coating. <i>Corrosion Science</i> , 2021, 191, 109715.  | 6.6 | 150       |
| 22 | Designing and fabricating of single and double alkyl-chain indazole derivatives self-assembled monolayer for corrosion inhibition of copper. <i>Corrosion Science</i> , 2018, 140, 111-121.   | 6.6 | 141       |
| 23 | Synergistic effect of tartaric acid with 2,6-diaminopyridine on the corrosion inhibition of mild steel in 0.5 M HCl. <i>Scientific Reports</i> , 2016, 6, 33305.  | 3.3 | 138       |
| 24 | Investigation of the inhibition effect of Montelukast Sodium on the copper corrosion in 0.5 mol/L H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Molecular Liquids</i> , 2017, 248, 902-910.  | 4.9 | 126       |
| 25 | Insights into the inhibition mechanism of three 5-phenyltetrazole derivatives for copper corrosion in sulfuric acid medium via experimental and DFT methods. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 424-437.     | 5.3 | 125       |
| 26 | Facile synthesis and magnetic properties of monodisperse Fe <sub>3</sub> O <sub>4</sub> /silica nanocomposite microspheres with embedded structures via a direct solution-based route. <i>Journal of Alloys and Compounds</i> , 2010, 497, 221-227. | 5.5 | 121       |
| 27 | Experimental and theoretical investigations of some pyrazolo-pyrimidine derivatives as corrosion inhibitors on copper in sulfuric acid solution. <i>Applied Surface Science</i> , 2018, 459, 612-620.   | 6.1 | 115       |
| 28 | Sodium dodecyl benzene sulfonate as a sustainable inhibitor for zinc corrosion in 26% NH <sub>4</sub> Cl solution. <i>Journal of Cleaner Production</i> , 2017, 152, 17-25.   | 9.3 | 107       |
| 29 | The effect of 5-nitroindazole as an inhibitor for the corrosion of copper in a 3.0% NaCl solution. <i>RSC Advances</i> , 2015, 5, 63866-63873.  | 3.6 | 106       |
| 30 | The synergistic corrosion inhibition study of different chain lengths ionic liquids as green inhibitors for X70 steel in acidic medium. <i>Materials Chemistry and Physics</i> , 2018, 215, 229-241.  | 4.0 | 106       |
| 31 | Water soluble corrosion inhibitors for copper in 3.5 wt% sodium chloride solution. <i>Corrosion Science</i> , 2017, 123, 339-350.   | 6.6 | 105       |
| 32 | Electrochemical and thermodynamic investigation of diniconazole and triadimefon as corrosion inhibitors for copper in synthetic seawater. <i>Corrosion Science</i> , 2010, 52, 2891-2896.   | 6.6 | 102       |
| 33 | Theoretical evaluation of the corrosion inhibition performance of 1,3-thiazole and its amino derivatives. <i>Arabian Journal of Chemistry</i> , 2017, 10, 121-130.  | 4.9 | 101       |
| 34 | Investigation of imidazole derivatives as corrosion inhibitors of copper in sulfuric acid: Combination of experimental and theoretical researches. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 106, 118-129.               | 5.3 | 101       |
| 35 | Insight into the anti-corrosion performance of two food flavors as eco-friendly and ultra-high performance inhibitors for copper in sulfuric acid medium. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 838-851.                     | 9.4 | 100       |
| 36 | Theoretical challenges in understanding the inhibition mechanism of copper corrosion in acid media in the presence of three triazole derivatives. <i>RSC Advances</i> , 2014, 4, 41956-41967.   | 3.6 | 91        |

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|----|--|------|-----------|
| 37 | Photo and thermally stable branched corrosion inhibitors containing two benzotriazole groups for copper in 3.5 wt% sodium chloride solution. <i>Corrosion Science</i> , 2018, 138, 353-371.  | 6.6  | 91        |
| 38 | Synthesis of dibenzotriazole derivatives bearing alkylene linkers as corrosion inhibitors for copper in sodium chloride solution: A new thought for the design of organic inhibitors. <i>Corrosion Science</i> , 2016, 113, 64-77. | 6.6  | 89        |
| 39 | Experimental and theoretical studies on inhibition performance of Cu corrosion in 0.5 M H <sub>2</sub> SO <sub>4</sub> by three disulfide derivatives. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 449-460. | 5.8  | 89        |
| 40 | Effects of two fungicides on the corrosion resistance of copper in 3.5% NaCl solution under various conditions. <i>Corrosion Science</i> , 2011, 53, 735-745.  | 6.6  | 88        |
| 41 | Experimental and theoretical studies of benzalkonium chloride as an inhibitor for carbon steel corrosion in sulfuric acid. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 24, 174-180.                             | 5.8  | 86        |
| 42 | Passiflora edulia Sims leaves Extract as renewable and degradable inhibitor for copper in sulfuric acid solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128892.                     | 4.7  | 85        |
| 43 | Insight into the corrosion inhibition of copper in sulfuric acid via two environmentally friendly food spices: Combining experimental and theoretical methods. <i>Journal of Molecular Liquids</i> , 2019, 286, 110891.            | 4.9  | 82        |
| 44 | Solvothermal synthesis of functionalized carbon dots from amino acid as an eco-friendly corrosion inhibitor for copper in sulfuric acid solution. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 1-14.               | 9.4  | 81        |
| 45 | Experimental and Theoretical Study on the Corrosion Inhibition of Mild Steel by 1-Octyl-3-methylimidazolium Proinate in Sulfuric Acid Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16349-16358.    | 3.7  | 80        |
| 46 | Ultrathin single-crystalline vanadium pentoxide nanoribbon constructed 3D networks for superior energy storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13136-13142.  | 10.3 | 78        |
| 47 | Synergistic corrosion inhibition effect of thiazolyl-based ionic liquids between anions and cations for copper in HCl solution. <i>Applied Surface Science</i> , 2019, 483, 901-911.   | 6.1  | 77        |
| 48 | Adsorption and Inhibitory Mechanism of 1,2,4-Triazol-1-yl-methyl-2-(4-chlorophenoxy) Acetate on Corrosion of Mild Steel in Acidic Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 6082-6088.          | 3.7  | 76        |
| 49 | Substitutional adsorption isotherms and corrosion inhibitive properties of some oxadiazol-triazole derivative in acidic solution. <i>Corrosion Science</i> , 2010, 52, 3126-3132.  | 6.6  | 73        |
| 50 | A green Brassica oleracea L extract as a novel corrosion inhibitor for Q235 steel in two typical acid media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126077.                          | 4.7  | 70        |
| 51 | Carbon-based air electrodes carrying MnO <sub>2</sub> in zinc-air batteries. <i>Journal of Power Sources</i> , 2000, 91, 83-85.  | 7.8  | 69        |
| 52 | Corrosion retardation effect of a green cauliflower extract on copper in H <sub>2</sub> SO <sub>4</sub> solution: Electrochemical and theoretical explorations. <i>Journal of Molecular Liquids</i> , 2021, 321, 114450.           | 4.9  | 68        |
| 53 | Adsorption and Corrosion Inhibition Behavior of Mild Steel by One Derivative of Benzoic-Triazole in Acidic Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 2593-2599.                                 | 3.7  | 65        |
| 54 | Evaluating two new Schiff bases synthesized on the inhibition of corrosion of copper in NaCl solutions. <i>RSC Advances</i> , 2015, 5, 14804-14813.  | 3.6  | 62        |

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|----|---|------|-----------|
| 55 | Synthesized carbon dots with high N and S content as excellent corrosion inhibitors for copper in sulfuric acid solution. <i>Journal of Molecular Liquids</i> , 2021, 338, 116702.  | 4.9  | 62        |
| 56 | Applications of graphene-based composite hydrogels: a review. <i>RSC Advances</i> , 2017, 7, 51008-51020.   | 3.6  | 61        |
| 57 | How does fluorescent labeling affect the binding kinetics of proteins with intact cells?. <i>Biosensors and Bioelectronics</i> , 2015, 66, 412-416.   | 10.1 | 56        |
| 58 | Synthesis of New Benzotriazole Derivatives Containing Carbon Chains as the Corrosion Inhibitors for Copper in Sodium Chloride Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 12242-12253.                 | 3.7  | 55        |
| 59 | Investigation of Losartan Potassium as an eco-friendly corrosion inhibitor for copper in 0.5 M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Molecular Liquids</i> , 2020, 305, 112789.  | 4.9  | 51        |
| 60 | Investigating the inhibitive effect of <i>Davidia involucrata</i> leaf extract as a biological eco-friendly inhibitor for copper in acidic medium. <i>Journal of Molecular Liquids</i> , 2021, 325, 115214.                             | 4.9  | 50        |
| 61 | Evaluation of <i>Idesia polycarpa</i> Maxim fruits extract as a natural green corrosion inhibitor for copper in 0.5 M sulfuric acid solution. <i>Journal of Molecular Liquids</i> , 2020, 318, 114080.                                  | 4.9  | 49        |
| 62 | A first-principles study on the structural, elastic, electronic, optical, lattice dynamical, and thermodynamic properties of zinc-blende CdX (X= S, Se, and Te). <i>Journal of Alloys and Compounds</i> , 2013, 579, 583-593.           | 5.5  | 46        |
| 63 | Insight into anti-corrosion mechanism of tetrazole derivatives for X80 steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> medium: Combined experimental and theoretical researches. <i>Journal of Molecular Liquids</i> , 2021, 321, 114464. | 4.9  | 44        |
| 64 | Experimental and Theoretical Investigation of Thiazolyl Blue as a Corrosion Inhibitor for Copper in Neutral Sodium Chloride Solution. <i>Materials</i> , 2018, 11, 1042.  | 2.9  | 43        |
| 65 | Orderly self-assembly of new ionic copolymers for efficiently protecting copper in aggressive sulfuric acid solution. <i>Chemical Engineering Journal</i> , 2020, 384, 123293.  | 12.7 | 41        |
| 66 | Self-assembly of new dendrimers basing on strong $\pi$ - $\pi$ intermolecular interaction for application to protect copper. <i>Chemical Engineering Journal</i> , 2018, 342, 238-250.  | 12.7 | 40        |
| 67 | A new pyridazine derivative synthesized as an efficient corrosion inhibitor for copper in sulfuric acid medium: Experimental and theoretical calculation studies. <i>Journal of Molecular Liquids</i> , 2021, 341, 117370.              | 4.9  | 39        |
| 68 | A voltammetric sensor based on eosin Y film modified glassy carbon electrode for simultaneous determination of hydroquinone and catechol. <i>Analytical Methods</i> , 2014, 6, 6494-6503.   | 2.7  | 38        |
| 69 | In situ drug-receptor binding kinetics in single cells: a quantitative label-free study of anti-tumor drug resistance. <i>Scientific Reports</i> , 2014, 4, 6609.   | 3.3  | 38        |
| 70 | Controlled synthesis of a high-performance $\pm$ -NiS/Ni <sub>3</sub> S <sub>4</sub> hybrid by a binary synergy of sulfur sources for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 56-65.               | 9.4  | 36        |
| 71 | Structural, elastic, electronic and optical properties of beryllium chalcogenides BeX (X=S, Se, Te) with zinc-blende structure. <i>Journal of Alloys and Compounds</i> , 2013, 561, 16-22.  | 5.5  | 35        |
| 72 | A sol-gel approach to prepare hybrid coating for corrosion protection of aluminum alloy. <i>Surface and Coatings Technology</i> , 2015, 279, 72-78.   | 4.8  | 35        |

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|----|---|------|-----------|
| 73 | Highly ordered anodic TiO <sub>2</sub> nanotube arrays and their stabilities as photo(electro)catalysts. <i>Applied Surface Science</i> , 2012, 258, 3647-3651.   | 6.1  | 34        |
| 74 | Nano- to Micro-Self-Aggregates of New Bisimidazole-Based Copoly(ionic liquid)s for Protecting Copper in Aqueous Sulfuric Acid Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10135-10145.  | 8.0  | 34        |
| 75 | A Comprehensive Theoretical Investigation of Intramolecular Proton Transfer in the Excited States for Some Newly-designed Diphenylethylene Derivatives Bearing 2-(2-Hydroxy-Phenyl)-Benzotriazole Part. <i>Journal of Fluorescence</i> , 2011, 21, 1721-1728. | 2.5  | 32        |
| 76 | Bee pollen extract as an eco-friendly corrosion inhibitor for pure copper in hydrochloric acid. <i>Journal of Molecular Liquids</i> , 2020, 316, 113849.  | 4.9  | 32        |
| 77 | The effect of tricyclazole as a novel leveler for filling electroplated copper microvias. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 151-159.   | 3.8  | 31        |
| 78 | New ES IPT-Inspired Photostabilizers of Two-Photon Absorption Coumarin-Benzotriazole Dyads: From Experiments to Molecular Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 5223-5230.   | 3.7  | 30        |
| 79 | 4,6-Dimethyl-2-mercaptopyrimidine as a potential leveler for microvia filling with electroplating copper. <i>RSC Advances</i> , 2017, 7, 40342-40353.   | 3.6  | 30        |
| 80 | Hyperbranched molecules having multiple functional groups as effective corrosion inhibitors for Al alloys in aqueous NaCl. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 614-626.  | 9.4  | 30        |
| 81 | Conjugated dyes carrying N, N-dialkylamino and ketone groups: One-component visible light Norrish type II photoinitiators. <i>Dyes and Pigments</i> , 2017, 137, 456-467.   | 3.7  | 29        |
| 82 | Corrosion control of mild steel in 0.1 M H <sub>2</sub> SO <sub>4</sub> solution by benzimidazole and its derivatives: an experimental and theoretical study. <i>RSC Advances</i> , 2017, 7, 23961-23969.   | 3.6  | 28        |
| 83 | Measuring Binding Kinetics of Antibody-Conjugated Gold Nanoparticles with Intact Cells. <i>Small</i> , 2015, 11, 3782-3788.   | 10.0 | 27        |
| 84 | Self-aggregate nanoscale copolymer of new synthesized compounds efficiently protecting copper corrosion in sulfuric acid solution. <i>Chemical Engineering Journal</i> , 2020, 394, 124909.   | 12.7 | 27        |
| 85 | Experimental and theoretical studies of triisopropanolamine as an inhibitor for aluminum alloy in 3% NaCl solution. <i>RSC Advances</i> , 2015, 5, 101693-101700.   | 3.6  | 25        |
| 86 | Experimental and computational investigations of 2-amino-6-bromobenzothiazole as a corrosion inhibitor for copper in sulfuric acid. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 2083-2098.  | 2.6  | 25        |
| 87 | Experimental and Theoretical Studies on the Corrosion Inhibition of Carbon Steel by Two Indazole Derivatives in HCl Medium. <i>Materials</i> , 2019, 12, 1339.  | 2.9  | 24        |
| 88 | Adsorption of Gardenia jasminoides fruits extract on the interface of Cu/H <sub>2</sub> SO <sub>4</sub> to inhibit Cu corrosion: Experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2022, 345, 116996.                               | 4.9  | 24        |
| 89 | Understanding the adsorption and inhibitive properties of Nitrogen-Doped Carbon Dots for copper in 0.5 M H <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 23-34.                            | 5.3  | 24        |
| 90 | Stilbene-benzophenone dyads for free radical initiating polymerization of methyl methacrylate under visible light irradiation. <i>Dyes and Pigments</i> , 2016, 132, 27-40.   | 3.7  | 22        |

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|-----|--|-----|-----------|
| 91  | Phenothiazine drugs as novel and eco-friendly corrosion inhibitors for copper in sulfuric acid solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 253-263.                  | 5.3 | 22        |
| 92  | Electroless copper plating using dimethylamine borane as reductant. <i>Particuology</i> , 2012, 10, 487-491.   | 3.6 | 20        |
| 93  | In situ ellipsometric study of electrodeposition of manganese films on copper. <i>Applied Surface Science</i> , 2011, 257, 3275-3280.  | 6.1 | 19        |
| 94  | The electron donating effect of novel pyrazolo-pyrimidine inhibitors on anticorrosion of Q235 steel in pickling solution. <i>Journal of Molecular Liquids</i> , 2019, 286, 110893.                           | 4.9 | 19        |
| 95  | Molecular self-assembly of novel amphiphilic topological hyperbranched polymers for super protection of copper in extremely aggressive acid solution. <i>Applied Surface Science</i> , 2020, 529, 147076.    | 6.1 | 19        |
| 96  | Coordination agent-dominated phase control of nickel sulfide for high-performance hybrid supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 45-52.                                 | 9.4 | 19        |
| 97  | Corrosion behavior of 3C magnesium alloys in simulated sweat solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 234-239.  | 1.5 | 18        |
| 98  | Shock tube study of kerosene ignition delay at high pressures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 947-954.   | 5.1 | 18        |
| 99  | Copper corrosion inhibition by combined effect of inhibitor and passive film in alkaline solution. <i>Research on Chemical Intermediates</i> , 2015, 41, 8557-8570.  | 2.7 | 18        |
| 100 | Effects of 2,2-Dithiodipyridine as a Leveler for Through-Holes Filling by Copper Electroplating. <i>Journal of the Electrochemical Society</i> , 2019, 166, D660-D668.                                       | 2.9 | 18        |
| 101 | Two common antihistamine drugs as high-efficiency corrosion inhibitors for copper in 0.5M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 123, 11-20.  | 5.3 | 18        |
| 102 | Atriplex leucoclada extract: A promising eco-friendly anticorrosive agent for copper in aqueous media. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 334-343.                           | 5.8 | 17        |
| 103 | Two novel drugs as bio-functional inhibitors for copper performing excellent anticorrosion and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110898.                  | 5.0 | 15        |
| 104 | New small gemini ionic liquids for intensifying adsorption and corrosion resistance of copper surface in sulfuric acid solution. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106679.     | 6.7 | 15        |
| 105 | First-principles study of electric field effects on the structure, decomposition mechanism, and stability of crystalline lead styphnate. <i>Journal of Molecular Modeling</i> , 2014, 20, 2072.              | 1.8 | 14        |
| 106 | Combining experiment and theory researches to insight into anti-corrosion nature of a novel thiazole derivatives. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 190-200.         | 5.3 | 14        |
| 107 | Self-assembly of new O- and S-heterocycle-based protective layers for copper in acid solution. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4592-4601.   | 2.8 | 13        |
| 108 | Elastic, electronic, optical, and spectroscopic properties of $\hat{\Gamma}^2$ -AgMO <sub>2</sub> (M = Al and Ga): First-principles calculations. <i>Computational Materials Science</i> , 2014, 92, 92-101. | 3.0 | 12        |

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|-----|---|-----|-----------|
| 109 | New near UV photoinitiators containing benzophenone part for photoinitiating polymerization of methyl methacrylate. <i>Progress in Organic Coatings</i> , 2017, 110, 150-161.   | 3.9 | 12        |
| 110 | Strengthened adsorption and corrosion inhibition of new single imidazole-type ionic liquid molecules to copper surface in sulfuric acid solution by molecular aggregation. <i>Journal of Molecular Liquids</i> , 2021, 338, 116675. | 4.9 | 12        |
| 111 | Synthesis, Crystal, Absorption and Fluorescence Spectroscopy of Nitro-Stilbene Derivatives with Benzophenones. <i>Journal of Fluorescence</i> , 2008, 18, 787-799.  | 2.5 | 11        |
| 112 | Halogeno-substituted indazoles against copper corrosion in industrial pickling process: a combined electrochemical, morphological and theoretical approach. <i>RSC Advances</i> , 2018, 8, 38860-38871.                             | 3.6 | 11        |
| 113 | Vertically aligned cobalt oxide nanowires on graphene networks for high-performance lithium storage. <i>Nanotechnology</i> , 2014, 25, 445704.  | 2.6 | 10        |
| 114 | Enhancing Electrochemical Hydrogen Generation by Platinum-Modification of p-Type Silicon Wires Array under Visible Light. <i>Journal of the Electrochemical Society</i> , 2014, 161, H458-H463.                                     | 2.9 | 10        |
| 115 | Hierarchical MnO <sub>2</sub> nanosheets synthesized via electrodeposition-hydrothermal method for supercapacitor electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.                            | 2.3 | 10        |
| 116 | Three piperazine compounds as corrosion inhibitors for copper in 0.5 M sulfuric acid medium. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 231-243.   | 5.3 | 10        |
| 117 | New armed near-IR two-photon organic chromophores undergoing ESIPT and "naked eye" fluorescence sensing to zinc ions. <i>Tetrahedron Letters</i> , 2015, 56, 2758-2763.   | 1.4 | 9         |
| 118 | Study on corrosion inhibition performance of 1-dodecyl-3-methyl-1H-imidazolium nitrate on Cu in the sulfuric acid environment. <i>Journal of Molecular Liquids</i> , 2021, 340, 117189.   | 4.9 | 9         |
| 119 | Photoinduced Excited State Intramolecular Proton Transfer of New Schiff Base Derivatives with Extended Conjugated Chromophores: A Comprehensive Theoretical Survey. <i>Chinese Journal of Chemistry</i> , 2010, 28, 901-910.        | 4.9 | 8         |
| 120 | New AB <sub>2</sub> type two-photon absorption dyes for well-separated dual-emission: molecular preorganization based approach to photophysical properties. <i>Tetrahedron</i> , 2016, 72, 3040-3056.                               | 1.9 | 8         |
| 121 | Remarkable difference between five- and six- number-membered ring transition states for intramolecular proton transfer in excited state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 339, 25-35.         | 3.9 | 8         |
| 122 | Electrochemical and Quantum Chemical Assessment of 2-Aminothiazole as Inhibitor for Carbon Steel in Sulfuric Acid Solution. <i>Asian Journal of Chemistry</i> , 2015, 27, 2917-2923.  | 0.3 | 8         |
| 123 | In situ investigation of initial stage growth of anodic ZrO <sub>2</sub> nanotubes by spectroscopic ellipsometry. <i>Electrochemistry Communications</i> , 2014, 42, 13-16.   | 4.7 | 7         |
| 124 | Understanding difficulties of irregular number-membered ring transition states for intramolecular proton transfer in excited state. <i>Tetrahedron</i> , 2017, 73, 403-410.   | 1.9 | 7         |
| 125 | New organic conjugated dye nano-aggregates exhibiting naked-eye fluorescence color switching. <i>Dyes and Pigments</i> , 2017, 139, 19-32.  | 3.7 | 7         |
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