Tsao-Cheng Huang

List of Publications by Year
in descending order

27 papers	1,524 citations	430874 18 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1633 citing authors

#	Article	IF	Citations
1	Novel anticorrosion coatings prepared from polyaniline/graphene composites. Carbon, 2012, 50, 5044-5051.	10.3	631
2	Advanced anticorrosive coatings prepared from electroactive epoxyâ€"SiO2 hybrid nanocomposite materials. Electrochimica Acta, 2011, 56, 6142-6149.	5.2	103
3	Advanced anticorrosive materials prepared from amine-capped aniline trimer-based electroactive polyimide-clay nanocomposite materials with synergistic effects of redox catalytic capability and gas barrier properties. Polymer, 2011, 52, 2391-2400.	3.8	88
4	Highly effective anti-corrosion epoxy spray coatings containing self-assembled clay in smectic order. Journal of Materials Chemistry A, 2015, 3, 2669-2676.	10.3	69
5	Synergistic effect of electroactivity and hydrophobicity on the anticorrosion property of room-temperature-cured epoxy coatings with multi-scale structures mimicking the surface of Xanthosoma sagittifolium leaf. Journal of Materials Chemistry, 2012, 22, 15845.	6.7	66
6	Electrochemical studies on aniline-pentamer-based electroactive polyimide coating: Corrosion protection and electrochromic properties. Electrochimica Acta, 2011, 56, 10151-10158.	5.2	64
7	Electrochemical investigations of the anticorrosive and electrochromic properties of electroactive polyamide. Electrochimica Acta, 2012, 63, 185-191.	5.2	56
8	Electrochemical investigations on anticorrosive and electrochromic properties of electroactive polyurea. Polymer Chemistry, 2012, 3, 2209.	3.9	52
9	Advanced anti-corrosion coatings prepared from Î±-zirconium phosphate/polyurethane nanocomposites. RSC Advances, 2017, 7, 9908-9913.	3.6	50
10	Advanced environmentally friendly coatings prepared from amine-capped aniline trimer-based waterborne electroactive polyurethane. Materials Chemistry and Physics, 2013, 137, 772-780.	4.0	39
11	The use of a carbon paste electrode mixed with multiwalled carbon nanotube/electroactive polyimide composites as an electrode for sensing ascorbic acid. Polymer Chemistry, 2014, 5, 630-637.	3.9	36
12	Advanced superhydrophobic electroactive fluorinated polyimide and its application in anticorrosion coating. International Journal of Green Energy, 2017, 14, 113-120.	3.8	30
13	Aniline pentamer-based electroactive polyimide prepared from oxidation coupling polymerization for electrochemical sensing application. Polymer, 2012, 53, 4373-4379.	3.8	27
14	Synthesis electroactive polyurea with aniline-pentamer-based in the main chain and its application in electrochemical sensor. Electrochimica Acta, 2013, 94, 300-306.	5.2	25
15	Photoactively electroactive polyamide with azo group in the main chain via oxidative coupling polymerization. Polymer Chemistry, 2013, 4, 343-350.	3.9	23
16	Effect of photoisomerization on the electroactivity and electrochromic behavior of aniline pentamer-based polymers with azo chromophore as reversibly switchable pendant group. Polymer, 2012, 53, 4967-4976.	3.8	22
17	Synthesis of electroactive polyazomethine and its application in electrochromic property and electrochemical sensor. Surface and Coatings Technology, 2016, 303, 154-161.	4.8	22
18	Synthesis and electroactive properties of poly(amidoamine) dendrimers with an aniline pentamer shell. Journal of Materials Chemistry, 2011, 21, 4581.	6.7	18

#	Article	IF	Citations
19	Comparative studies on corrosion protection properties of polyimideâ€silica and polyimideâ€clay composite materials. Journal of Applied Polymer Science, 2011, 119, 548-557.	2.6	18
20	Self-assembly of Au nanoparticles on graphene sheets as a catalyst with controlled grafting density and high reusability. RSC Advances, 2014, 4, 61823-61830.	3.6	18
21	Spray-coated epoxy barrier films containing high aspect ratio functionalized graphene nanosheets. RSC Advances, 2015, 5, 102633-102642.	3.6	17
22	Preparation of highly-stable and recyclable novel Au/ZrP composite catalyst for 4-nitrophenol reduction. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 525-531.	5.3	16
23	Highly efficient oilâ€"water separators based on dual superhydrophobic and superoleophilic properties of multiwall-carbon nanotube filtration films. RSC Advances, 2016, 6, 12431-12434.	3.6	12
24	A novel Au/electroactive poly(amic acid) composite as an effective catalyst for p-nitrophenol reduction. RSC Advances, 2021, 11, 33990-33995.	3.6	8
25	Electroactive polyamide modified carbon paste electrode for the determination of ascorbic acid. International Journal of Green Energy, 2016, 13, 1334-1341.	3.8	7
26	A comparative study on the preparation and physical properties of environmental friendly PMMAâ€silica nano/subâ€micronâ€scale hybrid latexes controlled by chelating agent. Polymer Composites, 2011, 32, 1607-1616.	4.6	4
27	Highly Efficient and Recyclable Au/Aniline-Pentamer-Based Electroactive Polyurea Catalyst for the Reduction of 4-Nitrophenol. Catalysis Letters, 0, , 1.	2.6	1