

DR. SYED JUNAID ALI

List of Research Publications

1. L. Jiang*, **J. A. Syed***, Y. Z. Gao, H.B. Lu, X.K. Meng, Electrodeposition of Ni(OH)₂ reinforced polyaniline coating for corrosion protection of 304 stainless steel, *Applied Surface Science*, 440 (2018) 1011-1021, (IF=3.39).
2. **J.A. Syed**, J. Ma, B. G. Zhu, S.C. Tang, X. K. Meng, Hierarchical multicomponent electrode with interlaced Ni(OH)₂ nanoflakes wrapped zinc cobalt sulfide nanotube arrays for sustainable high performance supercapacitors, ***Advanced Energy Materials***, (2017) 1701228, (IF=16.72).
3. **J.A. Syed**, S.C. Tang, X. K. Meng, Super-hydrophobic multilayer coatings with layer number tuned swapping in surface wettability and redox catalytic anti-corrosion application, ***Scientific Reports***, 7 (2017) 4403, (IF=4.26).
4. J. Ma, S. C. Tang, **J. A. Syed**, D. Y. Su, X. K. Meng High-performance asymmetric supercapacitors based on reduced graphene oxide/polyaniline composite electrodes with sandwich-like structure, *Journal of Materials Science & Technology*, (2017), doi:10.1016/j.jmst.2017.12.006, (IF=2.76).
5. L. Jiang, **J. A. Syed**, Y. Z. Gao, Q. X. Zhang, J. F. Zhao, H. B. Lu, X. K. Meng, Electropolymerization of camphorsulfonic acid doped conductive polypyrrole anti-corrosive coating for 304SS bipolar plates, *Applied Surface Science*, 426 (2017) 87-98, (IF=3.39).
6. **J.A. Syed**, S.C. Tang, X.K. Meng, Intelligent saline enabled self-healing of multilayer coatings and its optimization to achieve redox catalytically provoked anti-corrosion ability, *Applied Surface Science*, 383 (2016) 177-190, (IF=3.39).
7. Y.Z. Gao, **J.A. Syed**, H.B. Lu, X.K. Meng, Anti-corrosive performance of electropolymerized phosphomolybdic acid doped PANI coating on 304SS, *Applied Surface Science*, 360 (2016) 389-397, (IF=3.39).
8. J. Ma, S.C. Tang, **J.A. Syed**, X.K. Meng, Asymmetric hybrid capacitors based on novel bearded carbon fiber cloth-pinhole polyaniline electrodes with excellent energy density, *RSC Advances*, 6 (2016) 82995-83002, (IF=3.11).
9. Y.G. Wang, S.C. Tang, S. Vongehr, **J.A. Syed**, X.Y. Wang, X.K. Meng, High-performance flexible solid-state carbon cloth supercapacitors based on highly processible n-graphene doped polyacrylic acid/polyaniline composites, *Scientific Reports*, 6 (2016) 12883, (IF=4.26).
10. **J. A. Syed**, H. B. Lu, S. C. Tang, X. K. Meng, Enhanced corrosion protective PANI-PAA/PEI multilayer composite coatings for 316SS by spin coating technique, *Applied Surface Science*, 325 (2015) 160-169, (IF=3.39).
11. **J. A. Syed**, S. C. Tang, H. B. Lu, X. K. Meng, Water soluble polyaniline-polyacrylic acid composites as efficient corrosion inhibitors for 316SS, *Industrial and Engineering Chemistry Research*, 54 (2015) 2950-2959, (IF=3.39).
12. **J. A. Syed**, S. C. Tang, H. B. Lu, X. K. Meng, Smart PDDA/PAA multilayer coatings with enhanced stimuli responsive self-healing and anti-corrosion ability, *Colloids and Surfaces A*, 476 (2015) 48-56, (IF=2.71).
13. Y.G. Wang, X.Y. Wang, S.C. Tang, S. Vongehr, **J.A. Syed**, X.K. Meng, Highly processible and electrochemically active graphene-doped polyacrylic acid/polyaniline allowing the preparation of defect-free thin films for solid-state supercapacitors, *RSC Advances*, 5 (2015) 62670-62677, (IF=3.11).

14. P. Y. Li, **J. A. Syed**, X. K. Meng, Sol-gel preparation and characterization of NiCo and Ni₃Fe nanoalloys, *Journal of Alloys and Compounds*, 512 (2012) 47-51,(IF=3.13).
15. H. Ren, S. C. Tang, **J. A. Syed**, X. K. Meng, A naphthyl-imide-based epoxy resin: cure kinetics and application in carbon fiber reinforced composites, *High Performance Polymers*, 24 (2012) 580-588, (IF=1.18).
16. H. Ren, S. C. Tang, **J. A. Syed**, X. K. Meng, Incorporation of silver nanoparticles coated with mercaptosuccinic acid/poly(ethylene glycol) copolymer into epoxy for enhancement of dielectric properties, *Materials Chemistry and Physics*, 137 (2012) 673-680, (IF=2.08).
17. L. Wang, Z. H. Cao, **J. A. Syed**, K. Hu, Q. W. She, X. K. Meng, Electric Field Accelerating Interface Diffusion in Cu/Ru/TaN/Si Stacks during Annealing, *Electrochemical and Solid-State Letters*, 15 (2012) H188-H191, (IF=2.32).
18. N. M. Ahmad, **S. J. Ali**, M. Saqib, Stimuli-responsive self-assembled multilayer azo thin films: effect of aggregates and salt on significant spectral shifts, *Journal of Polymer Science Part A. Polymer Chemistry*, 50 (2012) 1881-1889, (IF=2.95).

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Conference Publication

- **Syed J. Ali**, Chaudhary J. Omer, Nasir M. Ahmad, Christopher J. Barret, Muhammad I. Sarwar, Novel Functionalized Polymers Containing Photoresponsive Azobenzene Chromophore: Synthesis and Characterization, *NUST Journal of Engineering Sciences*, 2 (2009) 194-197.

Book

- **Syed Junaid Ali**, Nasir M. Ahmad, Self-Assembled Coatings of Stimuli Responsive Polymeric Materials, LAP LAMBERT Academic Publishing, ISBN: 978-3-659-10987-4, (2012).