

Curriculum Vitae

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CURRENT RESEARCH INTEREST:

Syntheses, characterizations, investigations, of nanostructured materials and applications as electrochemical biosensors and electrochemical energy storage device

JOURNAL PAPERS & BOOKS:

1. N. Moradi, M. A. Mehrgardi, M. F. Mousavi, Preparation of a new electrochemical biosensor for single base mismatch detection in DNA. *Analytical Methods*, (2013).
2. A. Hamzehloei, S. Z. Bathaie, M. F. Mousavi, Azurin immobilization on 6-Mercaptohexanol self-assembled monolayer: Studies of Electron Transfer and Orientation. *Biosensors & Bioelectronics*, (2013).
3. F. Beigloo, S. Z. Bathaie, M. F. Mousavi, M. Yousef Elahi, S. Ghasemi, Preparation of a new DNA-based nano biosensor for histone H1 determination and investigation of its interaction with DNA. *Bioelectrochemistry*, (2013).
4. V. Alizadeh, M. A. Mehrgardi, M. F. Mousavi, Scanning Electrochemical Microscopic Investigation of Cytochrome c Immobilized onto Self-assembled Monolayer of Captopril. *Electroanalysis*, (2013).
5. A. Pendashteh, M. F. Mousavi, M. S. Rahmanifar, Fabrication of anchored copper oxide nanoparticles on graphene oxide

- nanosheets via an electrostatic coprecipitation and its application as supercapacitor. *Electrochimica Acta* 88, 347 (1/15/, 2013).
- 6. A. Pendashteh, M. Mousavi, M. Kiani, S. Kazemi, M. Rahmanifar, Synthesis of micro and nanostructured MnO₂ and their comparative study in lithium battery. *Journal of the Iranian Chemical Society* 9, 389 (2012).
 - 7. S. Kazemi, M. Shamsipur, A. Alizadeh, M. Mousavi, Electrochemical behaviors of novel electroactive Au nanoparticles protected by self-assembled monolayers. *Journal of the Iranian Chemical Society*, 1 (2012/09/01, 2012).
 - 8. R. Hoshyar, S. Z. Bathaie, A. Kyani, M. F. Mousavi, Is there any interaction between telomeric DNA structures, g-quadruplex and I-motif, with saffron active metabolites? *Nucleosides Nucleotides Nucleic Acids* 31, 801 (2012).
 - 9. A. Hamzehloei, M. F. Mousavi, S. Z. Bathaie, In Situ Synthesis of a Novel Quinone Imine Self-Assembled Monolayer and Consideration of Its Reactivity with L-Arginine. *Electroanalysis* 24, 1362 (2012).
 - 10. H. R. Ghenaatian, M. F. Mousavi, M. S. Rahmanifar, High performance hybrid supercapacitor based on two nanostructured conducting polymers: Self-doped polyaniline and polypyrrole nanofibers. *Electrochimica Acta* 78, 212 (2012).
 - 11. M. Y. Elahi, S. Z. Bathaie, M. F. Mousavi, R. Hoshyar, S. Ghasemi, A new DNA-nanobiosensor based on G-quadruplex immobilized on carbon nanotubes modified glassy carbon electrode. *Electrochimica Acta* 82, 143 (2012).
 - 12. M. Yousef Elahi, S. Z. Bathaie, S. H. Kazemi, M. F. Mousavi, DNA immobilization on a polypyrrole nanofiber modified electrode and its interaction with salicylic acid/aspirin. *Analytical Biochemistry* 411, 176 (2011).
 - 13. M. A. Kiani, M. F. Mousavi, M. S. Rahmanifar, Synthesis of Nano- and Micro-Particles of LiMn(2)O(4): Electrochemical Investigation and Assessment as a Cathode in Li Battery. *International Journal of Electrochemical Science* 6, 2581 (Jul, 2011).
 - 14. H. R. Ghenaatian, M. F. Mousavi, M. S. Rahmanifar, High performance battery-supercapacitor hybrid energy storage system based on self-doped polyaniline nanofibers. *Synthetic Metals* 161, 2017 (2011).
 - 15. V. Alizadeh, M. F. Mousavi, M. A. Mehrgardi, S. H. Kazemi, H. Sharghi, Electron transfer kinetics of cytochrome c immobilized on a phenolic terminated thiol self assembled monolayer determined by scanning electrochemical microscopy. *Electrochimica Acta* 56, 6224 (2011).
 - 16. S. E. Salamifar, M. A. Mehrgardi, S. H. Kazemi, M. F. Mousavi, Cyclic voltammetry and scanning electrochemical microscopy studies of methylene blue immobilized on the self-assembled monolayer of n-dodecanethiol. *Electrochimica Acta* 56, 896 (2010).
 - 17. M. F. Mousavi, S. Ghasemi, *Sonochemistry : a suitable method for synthesis of nano-structured materials.* (Nova Science Publishers, Hauppauge, N.Y., 2010).
 - 18. M. A. Kiani, M. F. Mousavi, S. Ghasemi, Size effect investigation on battery performance: Comparison between micro- and nano-particles of [beta]-Ni(OH)₂ as nickel battery cathode material. *Journal of Power Sources* 195, 5794 (2010).
 - 19. E. Salamifar, M. A. Mehrgardi, M. F. Mousavi, Ion transport and degradation studies of a polyaniline-modified electrode using SECM. *Electrochimica Acta* 54, 4638 (2009).
 - 20. A. K. Mehdinia, S. Habib Bathaie, S. Zahra Alizadeh, Abdolhamid Shamsipur, Mojtaba Mousavi, Mir Fazlollah, Electrochemical DNA nano-biosensor for the study of spermidine-DNA interaction. *Journal of Pharmaceutical and Biomedical Analysis* 49, 587 (2009).
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 - 22. M. M. Shamsipur, F. Alizadeh, K. Mousavi, M. F. Lippolis, V. Garau, A. Caltagirone, C., Flow injection potentiometry by a novel coated graphite electrode based on 5-(9-anthracenylmethyl)-5-aza-2,8-dithia[9],(2,9)-1,10-phenanthrolinophane for the selective determination of uranyl ions. *Sensors and Actuators B-Chemical* 130, 300 (2008).
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 - 25. S. Riahi, M. F. Mousavi, M. R. Ganjali, P. Norouzi, Application of Correlation Ranking Procedure and Artificial Neural Networks in the Modeling of Liquid Chromatographic Retention Times (tR) of Various Pesticides. *Analytical Letters* 41, 3364 (2008).
 - 26. A. M. Mehdinla, M. F., Enhancing extraction rate in solid-phase microextraction by using nano-structured polyaniline coating. *Journal of Separation Science* 31, 3565 (2008).

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