https://scholar.google.com/citations?hl=en&user=9ZzuRsEAAAAJ&view_op=list_works&sortby=pubdate

نام و نام خانوادگی: محمد رضا محمودیان **(h-index:37)**
موسس، فناور و رییس هیت مدیره شرکت دانش بنیان نوآوران نانو صنعت معین
عضو هیئت علمی دانشگاه فرهنگیان (بهشتی تهران) (دانشیار)
عضو پاره وقت دفتر تالیف کتب درسی (گروه شیمی)
عضو شورای برنامه ریزی کتب درسی شیمی دفتر تالیف کتب درسی
مدیر مسئول وصاحب امتیاز فصلنامه پژوهشی مدرسه سالم
مسئول گروه شیمی شهرتهران (آموزش وپرورش شهر تهران) ۱۳۸۱ تا ۱۳۸۵
مسئول مرکز کارافرینی و نوآوری دانشگاه فرهنگیان از ۱۳۹۹ تا ۱۴۰۱

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تحصیلات:

۱-پسا دکتری:حسگر های الکتروشیمیایی1391-1390
۲-محقق ارشد در دانشگاه مالایا (شیمی)،-1391دکتری: دانشگاه مالایا مالزی، 1390-1387

۳- کارشناسی ارشد: دانشگاه اراک، ایران، 1380-1377
۴- کارشناسی: دانشگاه تربیت معلم تهران - ایران،1371-1367

وابستگی حرفه ای / عضویت وابستگی حرفه ای / عضویت

۱- انجام پروژه های بین المللی در کشورهای کره جنوبی و مالزی از سال ۹۱ تا کنون
۲- اجرای کارگاه آموزشیEIS برای اساتید دانشگاه آزاد1395

۳- اجرای کارگاه آموزشی برای اساتید دانشگاه UM مالزی1395
۴- انجمن نانو آمریکا, ایالات متحده آمریکا، عضو، ۲۰۱۱، (بین المللی)
http://members.nanosociety.us/reza

The International Advisory Editorial Board of *International Journal of Electroactive Materials*

http://electroactmater.com/index.php?option=com_content&view=article&id=85&Itemid=134

تدریس و فعالیت:
۱- عضو هیئت علمی دانشگاه فرهنگیان (مرکز بهشتی تهران) (دانشیار)
۲- معلم شیمی در دبیرستان،1387-1372
۳- سر گروه شیمی سازمان آموزش و پرورش شهر تهران، از سال 1387-1381
۴- دانشگاه آزاد دماوند، 1382-1387، شیمی پایه و شیمی تجزیه
۵- مدرس دوره ضمن خدمت تهران، زاهدان (1396-1377)
٦- عضو هیئت مدیر international conferences AMPT 2009

دروس مورد تدریس:
۱- شیمی عمومی۱ و ازمایشگاه شیمی عمومی۱
۲- شیمی عمومی۲ و ازمایشگاه شیمی عمومی۲
۳- شیمی تجزیه ۱ و ازمایشگاه شیمی تجزیه ۱
۴-شیمی تجزیه ۲(الکتروشیمی) و ازمایشگاه شیمی تجزیه ۲
۵- انالیز دستگاهی
۶- شیمی تجزیه پیشرفته
۷- تحلیل محتوای آموزشی در شیمی
۸- راهبردهای تدریس در آموزش شیمی

جوایز:
۱ -انتخاب طرح نانوافزودنیSn-doped TiO2 برای کنترل خوردگی اینجانب بعنوان طرح نوآورانه سال۹۵ ازطرف معاونت فناوری ریاست جمهوری وستاد نانوفناوری
۲- سه کمک هزینه پروژه از دانشگاه مالایا، (۲۰۰۹، ۲۰۱۰ و ۲۰۱۱)
۳- انتخاب کتاب تحت عنوان "ساختار اتمی" (محراب قلم، تهران، ایران، 1384) در جشنواره رشد (ایران، 1384)
۴- داری سطح بلوغ فناوری ۸ (TRL)برپایه تولید وفناوری نانو افزودنی ضد خوردگی از وزارت علوم وفناوری
۵- - فناور برگزیده کشوری دانشگاه فرهنگیان ۱۴۰۴

کتاب:

۱- کتاب معلم شیمی۳ وآزمایشگاه (وزارت آموزش وپرورش1393)

۲- ساختار اتم برای معلم شیمی "(قائم مقام فراهانی، تهران ایران، 1387)
۳- "چرخه بورن هابر" (معراج، تهران ایران، 1386)
۴- تصویر سازی در آموزش شیمی "(فرهیختگان علوی، تهران. ایران، 1385)
۵- "ساختار اتم" (محراب قلم، تهران، ایران، 1383)

زمینه های تخصص:

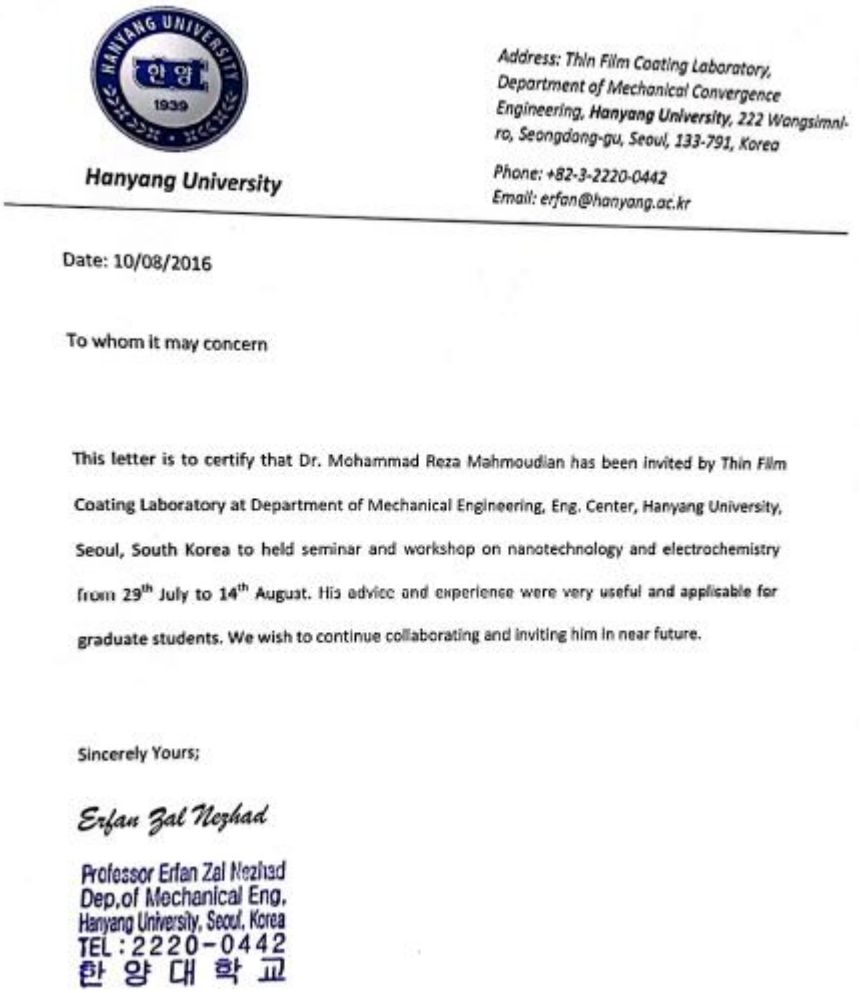
۱- الکتروشیمی (الکتروسنتز، Electrodeposition)
۲- خوردگی (طیف سنجی امپدانس الکتروشیمیایی)
۳- حسگرهای الکتروشیمیایی و بیولوژی

کتب بین المللی :

Abdolhossein Sáaedi, Mahmood Moradi, Mohamed H. Alkordi,
Mohammad Reza Mahmoudian,Gholam Hossein Bordbar,Ramin Yousef, Functional Nanomateria, Graphene-Metal-Organic Framework Modified Gas Sensor, Springer, 2020.

همکاریهای بین المللی:

۱- انجام پروژه مشترک با دانشگاه هانگ یانگ کره جنوبی



Hanyang University

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Phone: +82-3-2220-0442
Email: erfan@hanyang.ac.kr

Date: 10/08/2016

To whom it may concern

This letter is to certify that Dr. Mohammad Reza Mahmoudian has been invited by Thin Film Coating Laboratory at Department of Mechanical Engineering, Eng. Center, Hanyang University, Seoul, South Korea to held seminar and workshop on nanotechnology and electrochemistry from 29th July to 14th August. His advice and experience were very useful and applicable for graduate students. We wish to continue collaborating and inviting him in near future.

Sincerely Yours;

Erfan Zal Nezhad

Professor Erfan Zal Nezhad
Dep,of Mechanical Eng.
Hanyang University, Seoul, Korea
TEL : 2220-0442
한 양 대 학 교

۲- انجام پروژهای مشترک با دانشگاه Malaya University

UNIVERSITI MALAYA

16 July 2021

To whom it may concern,

It is hereby to confirm that the following projects have been carried out in collaboration with Dr. Mohammad Reza Mahmoudian from Farhangian University in the Department of Chemistry, Universiti Malaya and their cost have been paid using the grants mentioned in each article. The cost per article for purchasing materials and characterization was an average of RM 5,000 which a part of this amount was spent for living cost for Dr. Mohammad Reza Mahmoudian during his stay in Malaysia.

Synthesis of polyaniline microtubes/Pt reduced N-graphene oxide in the presence of L-glutamine for the detection of Hg^{2+} — 2020
MR Mahmoudian, WJ Basirun, PM Woi, Y Alias
Journal of Applied Electrochemistry 50 (12), 1269-1280
Impact Oriented Interdisciplinary Research Grant (IIRG013B-2019) and Prototype Research Grant Scheme (PR003-2018A)

Investigating the effectiveness of g-C_3N_4 on Pt/g-C_3N_4/polythiophene nanocomposites performance as an electrochemical sensor for Hg^{2+} detection — 2020
MR Mahmoudian, WJ Basirun, Y Alias, P MengWoi
Journal of Environmental Chemical Engineering 8 (5), 104204
Impact Oriented Interdisciplinary Research Grant (IIRG013B-2019) and Prototype Research Grant Scheme (PR003-2018A)

An electrochemical sensor based on Pt/g-C_3N_4/polyaniline nanocomposite for detection of Hg^{2+} — 2020
MR Mahmoudian, Y Alias, PM Woi, R Yousefi, WJ Basirun
Advanced Powder Technology 31 (8), 3372-3380
Impact Oriented Interdisciplinary Research Grant (IIRG013B-2019) and Prototype Research Grant Scheme (PR003-2018A)

Voltammetric sensing of formaldehyde by using a nanocomposite prepared by reductive deposition of palladium and platinum on polypyrrole-coated nitrogen-doped reduced graphene oxide — 2019
MR Mahmoudian, WJ Basirun, PM Woi, H Hazarkhani, YB Alias
Microchimica Acta 186 (6), 1-12
Prototype Research Grant Scheme (PR003-2018A)

Synthesis and characterization of α-Fe_2O_3/polyaniline nanotube composite as electrochemical sensor for uric acid detection — 2019
MR Mahmoudian, WJ Basirun, M Sookhakian, PM Woi, E Zalnezhad, YB Alias
Advanced Powder Technology 30 (2), 384-392
Prototype Research Grant Scheme (PR003-2018A)

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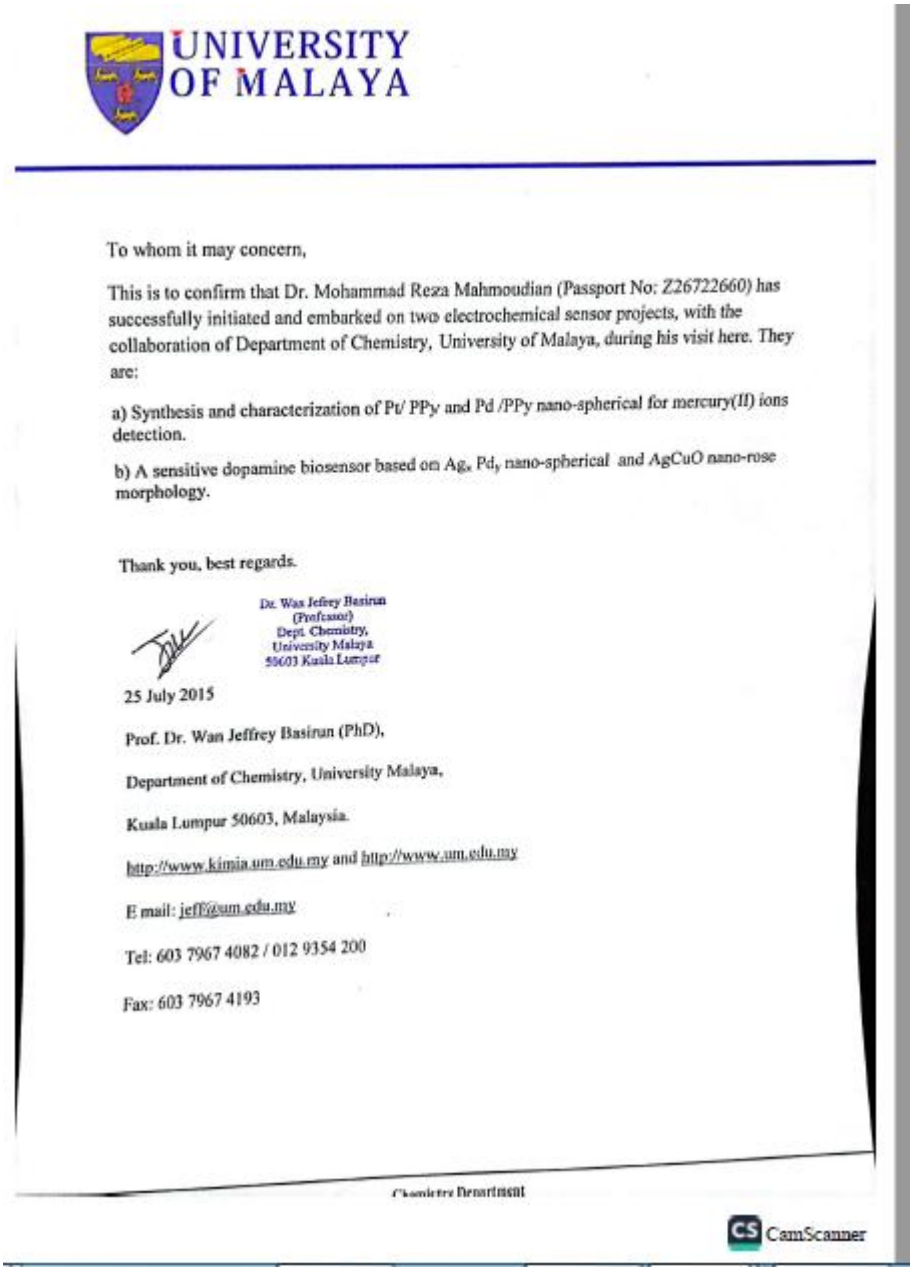
I-Glutamine-assisted synthesis of ZnO oatmeal-like/silver composites as an electrochemical sensor for Pb^{2+} detection — 2019

MR Mahmoudian, WJ Basirun, PM Woi, R Yousefi, Y Alias
Analytical and bioanalytical chemistry 411 (2), 517-526
Prototype Research Grant Scheme (PR003-2018A)

If you require further clarifications, please reach me by pmwoi@um.edu.my

Yours truthfully,

PI for IIRG013B-2019
Co-PI for PR003-2018A



UNIVERSITY OF MALAYA

To whom it may concern,

This is to confirm that Dr. Mohammad Reza Mahmoudian (Passport No: Z26722660) has successfully initiated and embarked on two electrochemical sensor projects, with the collaboration of Department of Chemistry, University of Malaya, during his visit here. They are:

a) Synthesis and characterization of Pt/ PPy and Pd /PPy nano-spherical for mercury(II) ions detection.

b) A sensitive dopamine biosensor based on Ag, Pd, nano-spherical and AgCuO nano-rose morphology.

Thank you, best regards.

Dr. Wan Jeffrey Basirun
(Professor)
Dept. Chemistry,
University Malaya
50603 Kuala Lumpur

25 July 2015

Prof. Dr. Wan Jeffrey Basirun (PhD),

Department of Chemistry, University Malaya,

Kuala Lumpur 50603, Malaysia.

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Chemistry Department

CamScanner

پروژه های در حال انجام تحت شرکت دانش بنیان نوآوران نانو صنعت معین که منجر به قرارداد صنعتی شده است:

۱-تثبیت گرد و غبار تحت نظارت ستاد ملی مبارزه با گرد و غبار ریاست جمهوری (منطقه رود شور بین شهرستان بم و زاهدان)
۲- پوشش پیچ وپابند صنایع ریلی وزارت راه و شهر سازی (راه آهن جمهوری اسلامی ایران)(مرحله چهارم)
۳- بک فیلتر برای جذب ذرات معلق نصب شده در انتهای لوله اگزوز اتوبوس های شهری (معاونت حمل و نقل شهرداری کرج)

پروژه های در حال انجام تحت حمایت معاونت علمی ریاست جمهوری:

۱- تولید اسپری رنگ مقاوم به حرارت (ستاد نانو معاونت علمی ریاست جمهوری)
۲- تولید عایق حرارتی برای سیستم های گرمایشی و سرمایشی (بنیاد علم ایران)

طرحهای انجام شده در دانشگاه فرهنگیان:
۱- بهبود عملکر دانشجویان رشته شیمی در فرایند کاروزی
۲- تولید رنگ کویل برای صنایع ذوب آهن

مقالات ISI:

Publications: ISI Journals (Accepted or Published):

1- Zohreh Haghighi Kafash, Mohammad Reza Mahmoudian, Introducing a back filter: the impact of metal type on reducing particulate matter and sulfide emissions from diesel engine exhaust, 2025, Environmental Science and Pollution Research, 32(36) 21559-21575

2- Mohammad Reza Mahmoudian, Zohreh Haghighi Kaffash, Studying environmental concerns in high school textbooks and presenting a strategy for introducing the capacity of knowledge-based companies active in this field within the framework of looking to the future in chemistry textbooks, 2025, Research in Chemistry Education , in press.

3- Jinjin Pei, Vahid Khorramshahi, Fatemeh Safari, Mehran Sookhakian, MR Mahmoudian, Morteza Nouri, Ramin Yousefi, Enhancing NO 2 gas sensing with ZnO/W 18 O 49 heterostructures: experimental insights and DFT analysis, 2025, Journal of Materials Chemistry C, 13(35) 18371-18380

4- M.R.Mahmoudian, Examining the reasons behind the academic failure of students in the process of online education on the science course of the first half of the secondary schools in Shahryar City, 2025, Research in Chemistry Education

5- Hongxia Zhang, Hassanali Azimi, MR Mahmoudian, Mehdi Ebadi, Razieh Moradi, Abbas Shirmardi, Ramin Yousefi, Efficient degradation of tetracycline antibiotics using a novel rGO/Ag/g-C3N4 photocatalyst for hospital wastewater treatment, 2024, و Journal of Environmental Management, 370, 122734

6-E Rasouli, WJ Basirun, MR Johan, M Rezayi, M.R. Mahmoudian, Electrochemical DNA-nano biosensor for the detection of cervical cancer-causing HPV-16 using ultrasmall Fe3O4-Au core-shell nanoparticles, 2023, Sensing and Bio-Sensing Research 40, 100562

7-M.R. Mahmoudian, l-Cysteine-assisted synthesis of polypyrrole-coated copper nanobelts and their application in the detection of hydrazine, Microchemical Journal 2022(183)107995

8-M.R. Mahmoudian, Synthesis and characterization of Fe3O4/Polyaniline microtube composite as electrochemical sensor for Lead (II) detection, Journal of Research on Many-body Systems 12 , 2022(1), 101-114

9-M.R. Mahmoudian, W.J. Basirun, P.M. Woi, Y. Alias, Synthesis of polyaniline microtubes/Pt reduced N-graphene oxide in the presence of L-glutamine for the detection of Hg2+, Journal of Applied Electrochemistry 50, 2020 (12), 1269-1280

10-M.R. Mahmoudian, W.J. Basirun, Y. Alias, P. MengWoi, Investigating the effectiveness of g-C3N4 on Pt/g-C3N4/polythiophene nanocomposites performance as an electrochemical sensor for Hg2+ detection, Journal of Environmental Chemical Engineering 8 , 2020(5), 104204

11-M.R. Mahmoudian, Y. Alias, P.M. Woi, R. Yousefi, W.J. Basirun, An electrochemical sensor based on Pt/g-C3N4/polyaniline nanocomposite for detection of Hg2+, Advanced Powder Technology 31, 2020 (8), 3372-3380

12-L. Shokrzadeh, P. Mohammadi, M.R. Mahmoudian, W.J. Basirun, M. Bahreini, L-glycine-assisted synthesis of SnO2/Pd nanoparticles and their application in detection of biodeteriorating fungi, Materials Chemistry and Physics 240,2020, 122172

13-A. Sáaedi, M. Moradi, M.H. Alkordi, M.R. Mahmoudian, G.H. Bordbar, Graphene-metal-organic framework modified gas sensor, Functional Nanomaterials, 2020, 117-142

14-M.R .Mahmoudian, W.J .Basirun, P.M. Woi, H. Hazarkhani, Y.B. Alias,Voltammetric sensing of formaldehyde by using a nanocomposite prepared by reductive deposition of palladium and platinum on polypyrrole-coated nitrogen-doped reduced graphene oxide, Microchimica Acta 186 , 2019 (6), 1-12

15-R. Yousefi, M.R. Mahmoudian, The use of nanotechnology in preventing corrosion of metal pipe and equipment of Shahid Abbaspour Dam, Journal of Dam and Hydroelectric Powerplant 6, 2019 (20), 31-37

16-- MR Mahmoudian, WJ Basirun, PM Woi, R Yousefi, Y Alias, l-Glutamine-assisted synthesis of ZnO oatmeal-like/silver composites as an electrochemical sensor for Pb2+ detection, Analytical and bioanalytical chemistry, 411, 2019 (2), 517-526

17- MR Mahmoudian, WJ Basirun, M Sookhakian, PM Woi, E Zalnezhad,Synthesis and characterization of α-Fe2O3/polyaniline nanotube composite as electrochemical sensor for uric acid detection,Advanced Powder Technology, 30, 2019 (2), 384-392

18- R Yousefi, HR Azimi, MR Mahmoudian, WJ Basirun, The effect of defect emissions on enhancement photocatalytic performance of ZnSe QDs and ZnSe/rGO nanocomposites, Applied Surface Science 435, 2018, 886-893

19- R Yousefi, HR Azimi, MR Mahmoudian, M Cheraghizade, Highly enhanced photocatalytic performance of Zn (1− x) MgxO/rGO nanostars under sunlight irradiation synthesized by one-pot refluxing method, Advanced Powder Technology 29 (1),2018, 78-85

20- M Cheraghizade, F Jamali-Sheini, R Yousefi, F Niknia, MR Mahmoudian, The effect of tin sulfide quantum dots size on photocatalytic and photovoltaic performance, Materials Chemistry and Physics 195, 2017, 187-194

21- F Jamali- Sheini, F Niknia, M Cheraghizade, R Yousefi, MR Mahmoudian, Broad Spectral Response of Se- Doped SnS Nanorods Synthesized through,Electrodeposition,ChemElectroChem 4 (6)2017, 1478-1486

22- MR Mahmoudian, WJ Basirun, Y Alias, Synthesis of 3D hierarchical Ag/CuO nanostructures in the presence of l-histidine and their application, Journal of Alloys and Compounds 699, 2017, 803-811

23- M Sookhakian, WJ Basirun, MAM Teridi, MR Mahmoudian, M Azarang,Prussian blue-nitrogen-doped graphene nanocomposite as hybrid electrode for energy storage applications, Electrochimica Acta 230, 2017, 316-323

24-MR Mahmoudian, WJ Basirun, E Zalnezhad, M Ladan, Y Alias, L-Glutamine-assisted synthesis of flower-like NiO and ball-flower-like NiO/Ag as an electrochemical sensor for lead (II) detection, RSC Advances 7 (49)2017, 30870-30878

25- HR Azimi, M Ghoranneviss, SM Elahi, MR Mahmoudian, F Jamali-Sheini, Excellent photocatalytic performance under visible-light irradiation of ZnS/rGO nanocomposites synthesized by a green method, Frontiers of Materials Science 10 (4)2016, 385-393

26- R Yousefi, MR Mahmoudian, A Sa, M Cheraghizade, F Jamali-Sheini, Effect of annealing temperature and graphene concentrations on photovoltaic and NIR-detector applications of PbS/rGO nanocomposites, Ceramics International 42 (14)2016, 15209-15216

27- WJ Basirun, IM Saeed, H Ghadimi, M Ladan, MR Mahmoudian, M Ebadi, Lead corrosion and formation of lead oxides from a lead-air cell in methanesulfonic acid, Journal of New Materials for Electrochemical Systems 19 (4) 2016, 217-222

28-M.R. Mahmoudian, WJ Basirun, Y binti Alias, A sensitive dopamine biosensor based on polypyrrole coated palladium silver nanospherical composites, Industrial & Engineering Chemistry Research, 2016, 55 (25), pp 6943–6951.

29-Abdolhossein Sa, Ramin Yousefi, Farid Jamali-Sheini, Ali Khorsand Zak, Mohsen Cheraghizade, M.R. Mahmoudian, Mohammad Amin Baghchesara, Abbas Shirmardi Dezaki, XPS studies and photocurrent applications of alkali-metals-doped ZnO nanoparticles under visible illumination conditions, Physica E: Low-dimensional Systems and Nanostructures 79, 113-118

30-M.R. Mahmoudian, WJ Basirun, PM Woi, M Sookhakian, R Yousefi and Yatimah Alias, Synthesis and characterization of Co 3 O 4 ultra-nanosheets and Co 3 O 4 ultra-nanosheet-Ni (OH) 2 as non-enzymatic electrochemical sensors for glucose detection, Materials Science and Engineering: C 59, 500-508

31-M.R. Mahmoudian, WJ Basirun, Y Alias, A sensitive electrochemical Hg 2+ ions sensor based on polypyrrole coated nanospherical platinum, RSC Advances 6 (43), 36459-36466.

32-M Sookhakian, NA Ridwan, E Zalnezhad, GH Yoon, Majid Azarang, M.R. Mahmoudian, Y Alias, Layer-by-Layer Electrodeposited Reduced Graphene Oxide-Copper Nanopolyhedra Films as Efficient Platinum-Free Counter Electrodes in High Efficiency Dye-Sensitized Solar Cells, Journal of The Electrochemical Society 163 (5), D154-D159

33-Ramin Yousefi, M.R. Mahmoudian, Abdolhosain Sa, Mohsen Cheraghizade, Farid Jamali-Sheini, M Azarang, Effect of annealing temperature and graphene concentrations

on photovoltaic and NIR-detector applications of PbS/rGO nanocomposites, Ceramics International, Volume 79, May 2016, Pages 113–118

34-M.R .Mahmoudian, Y Alias, WJ Basirun, Pei MengWoi, Farid Jamali-Sheini, M Sookhakian, M Silakhor, A sensitive electrochemical nitrate sensor based on polypyrrole coated palladium nanoclusters, Journal of Electroanalytical Chemistry, 751,2015, 30-36

35-Mahyar Silakhori, Hadi Fauzi, Mohammad R Mahmoudian, Hendrik Simon Cornelis Metselaar, Teuku Meurah Indra Mahlia, Hossein Mohammad Khanlou, Preparation and thermal properties of form-stable phase change materials composed of palmitic acid/polypyrrole/graphene nanoplatelets, Energy and Buildings , 99, 2015, 189–195

36-M. R. Mahmoudian, Y. Alias, W.J. Basirun, Pei Meng Woi, M. Sookhakian, Farid Jamali-Sheini, Synthesis and characterization of Fe3O4 rose like and spherical/reduced graphene oxide nanosheet composites for lead (II) sensor, Electrochimica Acta, 169,2015, 126-133

37-H Ghadimi, M.R. Mahmoudian, WJ Basirun, A sensitive dopamine biosensor based on ultra-thin polypyrrole nanosheets decorated with Pt nanoparticles, RSC Advances 5 (49), 2015, 39366-39374

38-F Jamali-Sheini, R Yousefi, NA Bakr, M.R. Mahmoudian, J Singh,Electrodeposition of Cu–ZnO nanocomposites: Effect of growth conditions on morphologies and surface properties, Materials Science in Semiconductor Processing 27, 2015, 507-514

39- Pooria Moozarm NiaAuthor Vitae, Woi Pei Menga Author Vitae,Farnaz Lorestani Author Vitae, M.R. MahmoudianAuthor Vitae, Y. Alias, Electrodeposition of copper oxide/polypyrrole/reduced graphene oxide as a nonenzymatic glucose biosensor, Sensors and Actuators B: Chemical, 209, 31 2015, 100–108

40- Wan Jeffrey Basirun,Mehran Sookhakian,Saeid Baradaran,Zulkarnain Endut,Mohammad Reza Mahmoudian,Mehdi Ebadi,Ramin Yousefi,Hanieh Ghadimi, Sohail Ahmed, Graphene oxide electrocatalyst on MnO2 air cathode as an efficient electron pump for enhanced oxygen reduction in alkaline solution, Scientific ReportsVolume: 5,2015,9108

41-M.T. Tajabadi, W.J. Basirun, F. Lorestani, R. Zakaria, S. Baradaran, Y.M. Amin, M.R. Mahmoudian, M. Rezayi, M. Sookhakian, Nitrogen-doped graphene-silver nanodendrites for the non-enzymatic detection of hydrogen peroxide, Electrochimica Acta, 151, 2015, 126–133

42-M.R. Mahmoudian, Y. Alias, W.J. Basirun, P.M. Woi, R. Yousef,i Synthesis of Polypyrrole Coated Silver Nanostrip Bundles and Their Application for Detection of Hydrogen Peroxide, Journal of The Electrochemical Society 161(2014) (9), H487-H492.

43. M. Sookhakian, Y.M. Amin, R. Zakaria, W.J. Basirun, M.R. Mahmoudian, Zohreh Haghighi Kafash, Mohammad Reza Mahmoudian, S. Baradaran, M. Azarang, Significantly improved photocurrent response of ZnS-reduced graphene oxide composites, Journal of Alloys and Compounds, 632, 2015, 201-207.

44-Mohsen Cheragizade, Ramin Yousefi, Farid Jamali-Sheini, M. R Mahmoudian, Abdolhossein Sa´aedi, Nay Ming Huang, Synthesis and characterization of PbS mesostructures as an IR detector grown by hydrogen-assisted thermal evaporation, Materials Science in Semiconductor Processing, 2014, 26, 704–709

45-.Ramin Yousefi, Mohsen Cheragizade, Farid Jamali-Sheini, M. R. Mahmoudian, Abdolhossein Saaédi and Nay Ming Huang, Influences of anionic and cationic dopants on the morphology and optical properties of PbS nanostructures, *Chinese Phys. B, 2014,* 23.

46-T. Marimuthu, M.R. Mahmoudian, S. Mohamad, Y. Alias, Synthesis and characterization of non-enzymatic hydrogen peroxide sensor of polypyrrole coated cobalt nanocomposites, Sensors and Actuators B: Chemical, 202,2014, 1037-1043

47-M. R. Mahmoudian, Y. Alias, W.J. Basirun, Pei Meng Woi, M. Sookhakian, Facile preparation of MnO2 nanotubes / reduced graphene oxide nanocomposite for electrochemical sensing of hydrogen peroxide, Sensors and Actuators B: Chemical, 201, 2014, 526-534

48-Farid Jamali-Sheini, Ramin Yousefi, M. R. Mahmoudian, Nabeel Ali Bakr, Facile synthesis of different morphologies of Te-doped ZnO nanostructures, Ceramics International, 40, Issue 6, 2014, 7737-7743

49-M. R. Mahmoudian, Y. Alias, W.J. Basirun, Pei Meng Woi, S. Baradaran, M. Sookhakian, Synthesis, Characterization, and Sensing Applications of polypyrrole coated Fe3O4 nanostrip bundles, Ceramics International, 40, 7, 2014, 9265-9272

50-W.J. Basirun, M. Sookhakian, M. R. Mahmoudian, M. Ebadi, Solid-phase electrochemical reduction of graphene oxide films in alkaline solution, Nanoscale Research Letters, 2013, 8:397.

51.Farid Jamali-Sheini, Ramin Yousefi, M. R. Mahmoudian,Effect of annealing process on the growth and surface properties of Au–ZnO nanowire films grown by chemical routes, Ceramics International,39, 2013, 7577-7581

52. M. R. Mahmoudian*, Y. Alias and W. J. Basirun. Synthesis of polypyrrole coated manganese nanowires and their application in hydrogen peroxide detection , Materials chemistry and physics.(2013)141, pp. 298-303

53. M. R. Mahmoudian*, W. J. Basirun and Y. Alias. Effects of different polypyrrole/TiO2 nanocomposite morphologies in polyvinyl butyral coatings for preventing the corrosion of mild steel. Applied surface science. (2013) 268 , pp. 302-311

54-A. Khorsand Zak, W.H. Abd. Majid, M.R. Mahmoudian, Majid Darroudi, Ramin Yousefi, Starch-stabilized synthesis of ZnO nanopowders at low temperature and optical properties study, Advanced Powder Technology, (2013) 24 (3) , pp. 618-624

55-M. R. Mahmoudian*, Y. Alias, W. J. Basirun, ,Ramin Yosefi, Synthesis and characterization of Zinc/ Polypyrrole nanotube as a protective pigment in organic coatings, (2013) Metallurgical and Materials Transactions A.

56-M. R. Mahmoudian*, W. J. Basirun and Y. Alias. Effect of narrow diameter polyaniline nanotubes and nanofibers in polyvinyl butyral coating on corrosion protective performance of mild steel. Progress in organic coatings (2013) 75 (4), pp. 301-308 (http://dx.doi.org/10.1016/j.porgcoat.2012.08.004)

57- S. Baradaran, W. J. Basirun, M. R. Mahmoudian, M. Hamdi, Y. Alias, Synthesis and characterisation of monetite in water/ethylene glycol/N,N-dimethylformamide mixed solvents by a sonochemical method, Metallurgical and Materials Transactions A (2012) 44 (5) , pp. 2331-2338

58- electrodeposited polypyrrole nanofibers between two layers of reduced graphene oxide nanosheets, (2012), Electrochimica Acta, 72, 53–60.(http://dx.doi.org/10.1016/j.electacta).

59-M.R. Mahmoudian*, Y. Alias, W.J. Basirun, M.Ebadi, Preparation of ultra-thin polypyrrole nanosheets decorated with Ag nanoparticles and their application in hydrogen peroxide detection,(2012), Electrochimica Acta, 72 , 46-52 . (http://dx.doi.org/10.1016/j.electacta).

60-Ramin Yousefi, Farid Jamali-Sheini, A. Khorsand Zak, M.R.Mahmoudian, Effect of indium concentration on morphology and optical properties of In-doped ZnO nanostructures, Ceramics International 38 (2012) 6295–6301

61-M. R. Mahmoudian*, W. J. Basirun and Y. Alias. (2012). Comparison of protection between double strands of polyaniline and poly o-anisidine with poly (acrylic acid- co-acryl amide) on steel. Journal of Coatings Technology and Research. 9 (1) 79–86

62-M. Ebadi,W. J. Basirun, S. Y. Leng and M. R. Mahmoudian, Investigation of Corrosion Inhibition Properties of Caffeine on Nickel by Electrochemical Techniques, Int. J. Electrochem. Sci., 7 (2012) 8052 – 8063

63- M.Ebadi, W.J. Basirun, Y. Alias, M.R. Mahmoudian, S.Y. Leng, (2012) Investigation of electrodeposition of Ni-Co-Fe-Zn alloys in DMSO with MHD effect. Materials Characterization (66) 46-55

64-M. R. Mahmoudian*, Y. Alias, W. J. Basirun and M. Ebadi. (2011). Poly (N-methyl pyrrole) and its copolymer with o-toluidine electrodeposited on steel in mixture of DBSA and oxalic acid electrolytes. Current Applied Physics. 11, 368-375

65-M. R. Mahmoudian*, W. J. Basirun and Y. Alias. (2011). Synthesis and characterization of poly(N-methylpyrrole)/TiO2 composites on steel**.** Applied Surface Science. 257, 3702–3708

66-M. R. Mahmoudian*, W. J. Basirun and Y. Alias. (2011). Synthesis of polypyrrole/Ni-doped TiO2 nanocomposites (NCs) as a protective pigment in organic coatings. Progress in Organic Coatings. 71 (1), 56-64

67- Mehdi Ebadi*, Wan Jeffrey Basirun, Yatimah Alias, Mohammadreza Mahmoudian 'Electrodeposition of Quaternary Alloys with High Saturation Magnetic Flux Density' Chemistry Central Journal, No; 2010, 4:14

68- Mehdi Ebadi*, Wan Jeffrey Basirun, Yatimah Alias, Mohammad Reza Mahmoudian. 'Normal and Anomalous co-deposition of Ni-Co-Fe-Zn Alloys from EMIC/EG in the presence of an external magnetic field' Metallurgical and Materials Transactions A Volume 42, Number 8, 2402-2410

69-M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2011). Studies on the effects of the potential sweep rates and pH on the corrosion rate of polyaniline coated steel. Advance materials research (264 – 265), 463-468

70. M. R. Mahmoudian*, W. J. Basirun, Y. Alias, M. Ebadi. (2011). Synthesis and characterization of Polypyrrole/ Sn-doped TiO2 nanocomposites (NCs) as a protective pigment. Applied Surface Science. 257, 8317– 8325

71. M. Ebadi, W. J. Basirun, Y. Alias, M. R. Mahmoudian, Electrodeposition of Ni-Co Alloys in DMSO under Magnetic Field. South African Journal of Chemistry, 2011, vol 64, 17 - 22

72- M. R. Mahmoudian*, W. J. Basirun and Y. Alias. (2011).Electrochemical Characteristics of coated Steel with Poly (N-methyl pyrrole) Synthesized in presence of ZnO NPs. Thin solid films 520(1) 258-265.

73- M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2011). Facile fabrication of Zn/Zn5 (OH) 8 Cl2. H2O flower-like nanostructure on the surface of coated Zn with Poly (N-methyl pyrrole). Applied Surface Science. 257(24) 10539-10544

74-Yang Kok Kee, M. R. Mahmoudian, Mehdi Ebadi, Koay Hun Lee, Wan Jeffrey Basirun (2011), Diffusion coefficient of Tin (II) Methanesulfonate in Ionic Liquid and Methane SulfonicAcid (MSA) solvent, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science 42 (6) 1274-1279

75- Ramin Yousefi, A.K. Zak, M. R. Mahmoudian (2011) Growth and characterization of Cl-doped ZnO hexagonal nanodisks. Journal of solid state chemistry, 184, (10) 2678-2682

76-M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2010). Electrodeposition of (pyrrole-co-phenol) on steel surfaces in mixed electrolytes of oxalic acid and DBSA. Materials Chemistry and Physics, 124 (2-3), 1022-1028

77- M Ebadi, WJ Basirun, Y Alias, M.R. Mahmoudian, Evaluation of nickel-cobalt deposition through the electrochemical impedance spectroscopy under magnetic field, Galvanotechnik 102 (6), 1265

(international conferences) :

1-M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2009). International Conference of advances in materials and processing technologies (AMPT,09), Kuala Lumpure, Malaysia. Oral presentation and co-chair.

2-M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2009). Regional Conference on Ionic Liquids 2009, University of Malaya Kuala Lumpure, Malaysia. Oral presentation

3-M. R. Mahmoudian*, Y. Alias and W. J. Basirun. (2010). 3rd International Conference on Functional Materials and Devices (ICFMD) 2010, Kuala Terengganu, Malaysia. Poster