


Curriculum Vitae

(Nasser A. M. Barakat)

I. Personal information

Name:	Nasser Aly Mohamed Barakat	
Date of birth:	31 th of Aug., 1972	
Marital status:	Married with 2 child	
Nationality:	Egyptian	
Position: (Permanent)	Associate Professor, Organic Materials and Fiber Engineering Dept., Chonbuk National University, Jeonju 561-756, South Korea. Professor in Chemical Engineering Dept., Faculty of Engineering, El-Minia University, Egypt	
Contacts	0082-10-6731-1431 (H.P), 0082-63-270-2363 (L.P)	
E-mail	nasser1995@hotmail.com nasbarakat@yahoo.com nasser@jbnu.ac.kr	
Languages	English (very good), Arabic (native) and Chinese (Good)	
Work abroad	I have no any problem to work in any country.	
Scopus ID	21741818400	

II. Educations:

Degree	Major	Institution	Title	Date
<i>Bachelor</i>	Chemical Engineering	Minia University, Mina, Egypt,	<i>Desulphurization of petroleum coke (Graduation Project)</i>	1995
<i>Master</i>	Chemical Engineering	Minia University, Mina, Egypt	<i>Desulphurization of petroleum coke and effect of some inorganic binders on its agglomeration</i>	1998
<i>Doctor</i>	Chemometrics	State key laboratory of	<i>New Chemometric</i>	2004

		Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan university, Changsha, China	<i>Algorithms for Knowledge Discovery from Complex Chemical Data</i>	
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III. Employments

Position	Institution	Period	
		From	To
Full Professor	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt	25/2/2015	Up to now
Associate Professor	Organic Materials and Fiber Engineering Dept., College of Engineering, Chonbuk National University, Jeonju 561-756, South Korea	25/10/2010	Up to now
Associate Professor	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt	28/1/2010	30/9/2010
Lecturer	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt	2-8-2009	27/1/2010
Postdoctoral fellow	Bionano system Engineering, College of Engineering, Chonbuk National University, Jeonju 561-756, South Korea.	1-2-2008	31-7-2009
Postdoctoral fellow	Bionano system Engineering, College of Engineering, Chonbuk National University, Jeonju 561-756, South Korea	1-2-2007	31-1-2008
Lecturer	Chemical Engineering Dept., Faculty of Engineering, El-Markab university,	1-9-2005	31-1-2007

	El-Khoms, Libya.		
Lecturer	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt	1-8-2004	31-8-2005
Ph. D Student	A Member of China Scholarship Council to Study Ph. D. State key laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan university, Changsha, China	1-9-2000	31-7-2004
Assistant Lecturer	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt	31-8-1998	31-8-2000
Demonstrator	Chemical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt.	1-9-1995	30-8-1998

IV. Awards

1. The best researcher in Chonbuk National University in 2015 (Oct. 2016)
2. Excellent researcher in Chonbuk National University in 2014 (Oct. 2015)
3. Visiting Professor in King Saud University, Saudi Arabia from June, 2013 up to now.
4. Egyptian Government Encouragement Prize in the field of Engineering Science (2009). جائزة الدولة التشجيعية فى العلوم الهندسية.
5. Misr Elkhair Organization for the best research paper, Egypt 2010.
6. Korean Carbon Society prize for the best lecture about nanotechnology, 2008.
7. Grant of Postdoctoral program, Chonbuk National University Jeonju 561-756, South Korea (2007).
8. Best oral presentation at “China-Japan-Korea international Symposium on Advanced Functional Nanofibers, March 3-8, 2013, Suzhou, China (the 5th International Symposium on Advanced Functional Fibers for Young Researchers.
9. Korean Science and Engineering Foundation (KOSEF) Grant Funded by Korea Government (MOEHRD) (KOSEF-200/-022), 2008.

10. Regional Research Centers Programs of the Korean Ministry of Education & Human Resource Development through the Center for Healthcare Technology and Development, 2009.
11. Trans-Century Training Program for Talents by the Ministry of Education of China and the Ministry of Higher Education of Egypt to study Ph. D degree. I entered State key laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan university, Changsha, China., 2000.

V. Patents

1. **Nasser A. M. Barakat**, Faheem A. Sheikh, Muzafar A. Kanjwal and Hak Yong Kim “ *Nanofiber web with network structure and method of manufacturing*” **Korean patent**, 10-2008-0106954 (2008.10.30).
2. **Nasser A.M. Barakat**, Faheem A. Sheikh, Muzafar A. Kanjwal and Hak Yong Kim. “*Core-Sheath typed gallium arsenide/PVA composite nanofiber and method of manufacturing the same*” **Korean Patent**, 10-1028382 (Submission date 2009.03.03, Registration date 2011.04.04).
3. **Nasser A. M. Barakat**, Park Soo-Jin, Faheem S. Arjamen, Hwang Hee-Jin and Hak Yong Kim "*Core-shell typed cobalt/carbon composite nanofibers and method manufacturing the same*" **Korean Patent**, 10-1034253 (Submission date 2009.05.14, Registration date 2011.05.03).
4. **Nasser A. M. Barakat** and Abdelazeem Mohamed, “Magnetic capsules having the ability to attract iron compounds from the surrounded media”, **Egyptian Patent, 320966, 7-7-2011.**
5. Abdalla Abdal-hay, **Nasser. A.M. Barakat**, Jae Kyoo Lim, Air Jet Spinning of Hydroxyapatite/Poly(Lactic Acid) Hybrid Nanocomposite Membrane Mats for Bone Tissue Engineering (**Korean Patent , submitted**)

VI. Chapters and Books.

1. “**Metal Oxides Nanofibers and Their Applications**” *chapter* published by **AMERICAN SCIENTIFIC PUBLISHERS**, 25650 North Lewis Way, Stevenson Ranch, California 91381-1439, USA, within a book entitled: **Metal Oxide Nanostructures and Their Applications**. Edited by Ahmad Umar and Yoon-Bong Hahn. ISBN: 1-58883-170-1.
2. “**Influences of Morphology and Doping on the Photoactivity of TiO₂ Nanostructures**” *chapter* published by **AMERICAN SCIENTIFIC PUBLISHERS**, 25650 North Lewis Way, Stevenson Ranch, California 91381-1439, USA, within a book entitled: **Structural Nanocomposites: Perspectives for future applications**. Edited by James Njuguna. ISSN 1612-1317, ISSN 1868-1212 (electronic), ISBN 978-3-642-40321-7, ISBN 978-3-642-40322-4 (eBook), DOI 10.1007/978-3-642-40322-4, **Springer** Heidelberg New York Dordrecht London.
3. “**Novel Inorganic Nanofibers for Energy Storage Devices**” Hak Yong Kim, Nasser A. M. Barakat, and Ayman Youssef, **LAP LAMBERT Academic Publishing**, AV Akademikerverlag GmbH & Co. KG, (ISBN 978-3-659-36070-1).
4. “**Titanium oxide-based nanofibers as effective catalyst for environmental and energy applications**” *chapter* published by , **LAP LAMBERT Academic Publishing**, AV Akademikerverlag GmbH & Co. KG, Germany within a book entitled: **Smart Materials for Energy Storage and Environmental Application**. Edited by M. Shaheer Akhtar. ISSN 978-3-659-86539-8,

VII. Editorial Board

1. *Energy and Environment Focus*, ISSN: 2326-3040 (Print); EISSN: 2326-3059 (Online), American Scientific Publishers, 2013
2. *International Journal of Mechanical Engineering and Industrial Applications (IJMEIA)*, Research Publisher, 2015.
3. *Journal of Advanced Research*, ISSN: 2090-1232, Elsevier.

VIII. Publications in SCI Journals

***** 2018 *****

- 234 Zafar KhanGhouri, Khaled Elsaid, AhmedAbdala1, SaeedAl-Meer & **Nasser A. M. Barakat** “*Surfactant/organic solvent free single-step engineering of hybrid graphene-Pt/TiO₂ nanostructure: Efcient photocatalytic system for the treatment of wastewater coming from textile industries*” **Scientific Reports**, (2018) 8:14656 | DOI:10.1038/s41598-018-33108-4
- 233 Ahmed S. Yasin, Ibrahim M.A. Mohamed, Mohamed T. Amen, **Nasser A. M. Barakat**, Chan Hee Park and Cheol Sang Kim “*Incorporating Zirconia Nanoparticles into activated carbon as electrode material for capacitive deionization*” **Journal of Alloys and Compounds**, 2018, In Press.
- 232 Mohamed S. Mahmoud, Enas Ahmed, A.A. Farghali, A.H. Zaki and **Nasser A. M. Barakat**, “*Synthesis of Fe/Co-doped titanate nanotube as redox catalyst for photon-induced water splitting*” **Materials Chemistry and Physics**, 217, 2018, 125-132.
- 231 Mohamed S. Mahmoud, Enas Ahmed, A.A. Farghali, A.H. Zaki, Emad A.M. Abdelghani and **Nasser A. M. Barakat**, “*Influence of Mn, Cu, and Cd-doping for titanium oxide nanotubes on the photocatalytic activity toward water splitting under visible light irradiation*” **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, 554, 2018, 100-109.
- 230 Mohamed T. Amen, **Nasser A. M. Barakat**, Mohammad Abu Hena Mostafa Jamal, Seong-Tshool Hong, Ibrahim M. A. Mohamed and Ali Salama, “*Anolyte In-situ Functionalized Carbon Nanotubes Electrons Transport Network as novel strategy for Enhanced Performance Microbial Fuel Cells*” **Applied Energy**, 228, 2018, 167-175.
- 229 **Nasser A. M. Barakat**, Mohannad Alajami, Zafar Khan Ghouri and Saeed Al-Meer, “*Effective NiMn Nanoparticles-Functionalized Carbon Felt as an*

- Effective Anode for Direct Urea Fuel Cells*” **Nanomaterials**, **2018**, **8**, **338**, **1-13**.
- 228** Mohamed S. Mahmoud, M. Shaheer Akhtar, Ibrahim M.A. Mohamed, Rawan Hamdan, Yara Abu Dakka, **Nasser A.M. Barakat** “*Demonstrated photons to electron activity of S-doped TiO₂ nanofibers as photoanode in the DSSC*”, **Materials Letters** **225** (2018) **77–81** (Featured letter)
- 227** **Nasser A. M. Barakat** “*CoNi/CNTs Composite as Effective and Stable Electrode for Oxygen Evolution Reaction in Alkaline Media*” **International Journal of Hydrogen Energy**, **2018**, **43**, **18**, **8623-8631**.
- 226** **Nasser A. M. Barakat**, Ayman Yousef, Salah Matter, M. Obaid, and Ahmed S. Yasin “*ZrO₂/TiO₂ Nanofiber Catalyst for Effective Liquefaction of Agricultural Wastes in Subcritical Methanol*” **Separation Science and Technology**, **2018**, **In Press**.
- 225** **Nasser A. M. Barakat**, A.H. Zaki, Enas Ahmed, A.A. Farghali and Fahad S. Al-Mubaddel “*Fe_xCo_{1-x}-doped Titanium Oxide Nanotubes as Effective Photocatalysts for Hydrogen Extraction from Ammonium Phosphate*” **International Journal of Hydrogen Energy**, **43**, **16**, **2018**, **7990-7997**.
- 224** **Nasser A. M. Barakat**, Ahmed G. El-Deen, Zafar Khan Ghouri, Saeed Al-Meer, “*Stable N-doped & FeNi-decorated graphene non-precious electrocatalyst for Oxygen Reduction Reaction in Acid Medium*” **Scientific Reports**, **8**, **2018**, **1-11**. doi:10.1038/s41598-018-22114-1
- 223** Mohammad Ali Abdelkareem, Yazan Al Haj, Mohannad Alajami, Hussain Alawadhi, **Nasser A.M. Barakat** “*Ni-Cd carbon nanofibers as an effective catalyst for urea fuel cell*” **Journal of Environmental Chemical Engineering**, **6**, **1**, **2018**, **332-337**.
- 222** **Nasser A. M. Barakat**, Mohamed A. Yassin, Fahad S. Al-Mubaddel, and Mohamed T. Amen, “*New electrooxidation characteristic for Ni-based electrodes for wide application in methanol fuel cells*” **Applied Catalysis A: General**, **2018**, **555**, **148-154**.
- 221** Mohannad Alajami, Mohamed A Yassin, Zafar Khan Ghouri, Saeed Al-

Meer, **Nasser A. M. Barakat** “*Influence of bimetallic nanoparticles composition and synthesis temperature on the electrocatalytic activity of NiMn-incorporated carbon nanofibers toward urea oxidation*” **International Journal of Hydrogen Energy**, **43**, 2018, 5561-5575.

- 220** **Nasser A. M. Barakat**, Mohannad Alajami, Zafar Khan Ghouri and Saeed Al-Meer “*CoNi Nanoparticles/CNT Composite as Effective Anode for Direct Urea Fuel Cells*” **International Journal of Electrochemical Science**, **13**. 2018, 4693-4699.
- 219** Hend Omar Mohamed , Enas Taha Sayed, Hyunjin Cho, Mira Park, M. Obaid, Hak-Yong Kim, **Nasser A.M. Barakat** “*Effective strategies for anode surface modification for power harvesting and industrial wastewater treatment using microbial fuel cells*” **Journal of Environmental Management** **206** (2018) 228-235.
- 218** **Nasser A. M. Barakat**, Enas Ahmed, Mohamed T. Amen, Mohammad Ali Abdelkareem, A.A. Farghali “*N-doped Ni/C/TiO₂ nanocomposite as effective photocatalyst for water splitting*” **Materials Letters**, **2018**, **210**, 317-320.

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- 217** Hend Omar Mohamed, M. Obaid, Enas Taha Sayed, Yang Liu Jinpyo Lee, Mira Park, **Nasser A. M. Barakat**, Hak Yong Kim “*Electricity generation from real industrial wastewater using a single-chamber air cathode microbial fuel cell with an activated carbon anode*” **Bioprocess and Biosystems Engineering**, **2017**, **40** (8) 1151-1161.
- 216** Hend Omar Mohamed , M. Obaid, Enas Taha Sayed, Mohammad Ali Abdelkareem, Mira Park, Yanan Liu, Hak-Yong Kim, **Nasser A.M. Barakat**, “*Graphite Sheets as high-performance low-cost anodes for mediator-less microbial fuel cells using real food wastewater*” **Chemical Engineering & Technology**, **2017**, **40**, **12**, 2243-2250.
- 215** Zafar Khan Ghouri, Khaled Elsaid, Saeed Al-Meer, **Nasser A. M. Barakat**

- “Applicable anode based on $\text{Co}_3\text{O}_4\text{-SrCO}_3$ heterostructure nanorods-incorporated CNFs with low-onset potential for DUFCS” **Applied Nanoscience**, 2017, 7, 625-631.
- 214 Nasser A.M. Barakat, Mohamed A. Yassin, Ahmed S. Yasin, Saeed Al-Meer “Influence of nitrogen doping on the electrocatalytic activity of Ni-incorporated carbon nanofibers toward urea oxidation” **International Journal of Hydrogen Energy**, 42, 34, 21741-21750, 2017.
- 213 Prem Singh Saud, Zafar Khan Ghouri, Mohamed K. Hassan, Nasser A. M. Barakat and Hak Yong Kim “Nano-designed $\lambda\text{-CaCO}_3@r\text{GO}$ photocatalyst for effective adsorption and simultaneous removal of organic pollutant” **Journal of Materials Science: Materials in Electronic**, 2016, 27, 9, 9593-9598.
- 212 Ayman Yousef, Robert M. Brooks, Mohammad A. Abdelkareem, Jabril A. Khamaj, M. M. El-Halwany, Nasser A. M. Barakat, Mohamed H. EL-Newehy, and Hak Yong Kim “Electrospun NiCu Nanoalloy Decorated on Carbon Nanofibers as Chemical Stable Electrocatalyst for Methanol Oxidation” **ECS Electrochemistry Letters**, 4 (9) F51-F55 (2015).
- 211 Hend Omar Mohamed , Mohammad Ali Abdelkareem, M. Obaid, Su-Hyeong Chae, Mira Park, Hak Yong Kim, and Nasser A. M. Barakat “Cobalt Oxides-Sheathed Cobalt Nano flakes to Improve Surface Properties of Carbonaceous Electrodes Utilized in Microbial Fuel Cells” **Chemical Engineering Journal**, 2017, 326, 497-506.
- 210 M. Obaid, Hend Omar Mohamed, Ahmed S. Yasin, Mohamed A. Yassin, Olfat A. Fadali, Hak-Yong Kim, and Nasser A. M. Barakat “Under-Oil Superhydrophilic Wetted PVDF Electrospun Modified Membrane for Continuous Gravitational Oil/Water Separation with Outstanding Flux” **Water Research**, 123, 524-535, 2017.
- 209 Mohamed A. Yassin, Ibrahim M.A. Mohamed, Fahad S. Al-Mubaddel, Nasser A.M. Barakat “Effective and high performance graphene electrode for acidic electrolyte supercapacitors prepared from commercial sugar by one-pot procedure” **Materials Letters**, 201, 2017, Pages 22-26

- 208** Nasser A. M. Barakat, “*Cuprite (Cu₂O) Architected Nanoparticles by Novel and Facile Treatment of PVA/Copper Acetate Electrospun Nanofibers*” **Energy and Environment Focus Vol. 6, 2, 2017, 119-146.**
- 207** Ayman Yousef, Robert M. Brooks, M.M. El-Halwany, Nasser A.M. Barakat, Mohamed H. EL-Newehy, Hak Yong Kim, “*CuO-decorated, carbon-doped rutile TiO₂ nanofibers via one step electrospinning: Effective photocatalyst for azo dyes degradation under solar light*” **Chemical Engineering and Processing 95 (2015) 202–207.**
- 206** Nasser A. M. Barakat, Mohannad Alajami, Yazan Al Haj, M. Obaid, Saeed Al-Meer, “*Enhanced onset potential NiMn-decorated activated carbon as effective and applicable anode in urea fuel cells*, **Catalysis Communications, 2017, 97, 32-36.**
- 205** Zafar Khan Ghouri, Saeed Al-Meer and Nasser A. M. Barakat, “*ZnO@C (core@shell) microspheres derived from spent coffee grounds as applicable non-precious electrode material for DMFCs*, **Scientific Reports, 2017, 7, 1738. doi:10.1038/s41598-017-01463-3.**
- 204** Ibrahim M A Mohamed, Van-Duong Dao, Ahmed S Yasin, Hamouda M Mousa, Mohamed A Yassin, Muhammad Yasir Khan, Ho-Suk Choi and Nasser A M Barakat “*Physicochemical and photo-electrochemical characterization of novel N-doped nanocomposite ZrO₂/TiO₂ photoanode towards technology of dye-sensitized solar cells*” **Materials Characterization, 2017, 127, 357-364.**
- 203** Badr M. Thamer, Mohamed H. El-Newehy, Nasser A. M. Barakat, Salem S. Al-Deyab and Hak Yong Kim, “*Preparation of zero-valent Co/N-CNFs as an immobilized thin film onto graphite disk for methanol electrooxidation*” **Fibers and Polymers, 2017, 18, 4, 696-705.**
- 202** Van-Duong Dao, Liudmila L. Larina, Quoc Chinh Tran, Van-Tien Bui, Van-Toan Nguyen, Thanh-Dong Pham, Ibrahim M.A. Mohamed, Nasser A.M. Barakat, Bui The Huy, Ho-Suk Choi, “*Evaluation of Pt-based alloy/graphene nanohybrid electrocatalysts for triiodide reduction in photovoltaics*” **Carbon 116 (2017) 294 – 302.**

- 201** Nasser A. M. Barakat, M. Shaheer Akhtar, Ibrahim M A Mohamed, Yara Abu Dakka, Rawan Hamdan, Ahmed G. El-Deen, Khalid Elsaid, M. Obaid, and Saeed Al-Meer “*Effective and Stable FeNi@ N-doped graphene Counter Electrode for Enhanced Performance Dye Sensitized Solar Cells*” **Materials Letters**, **191** (2017) **80 - 84**.
- 200** Ibrahim M A Mohamed, Van-Duong Dao, Ahmed S Yasin, Mohamed A Yassin, Nasser A M Barakat, and Ho-Suk Choi “*Synthesis of novel ZrO₂&GO@TiO₂ nanocomposite as an efficient photoanode in dye-sensitized solar cells*” **Superlattices and Microstructures** **102** (2017) **235 -245**.
- 199** Ahmed Yousef, Mohamed H. El-Newehy, Salem S. Al-Deyab, Nasser A. M. Barakat “*Facile synthesis for of Ni-decorated multi-layers graphene sheets as effective anodes for direct urea fuel cells*” **Arabian Journal of Chemistry**, **10**, **6** (2017) **811-822**.
- 198** Ahmed S. Yasin, M. Obaid, Ibrahim M.A. Mohamed, Cheol-Sang Kim and Nasser A. M. Barakat “*ZrO₂ nanofibers/activated carbon composite as novel and effective electrode material for enhanced performance capacitive deionization*” **RSC Advances**, **2017**, **7**, **4616**.
- 197** Hend Omar Mohamed, M. Obaid, Ahmed S. Yasin, a Jun Hee Kim, and Nasser A. M. Barakat “*Electrodepositing technique for improving the performance of crystalline and amorphous carbonaceous anodes for MFCs*” **RSC Advances**, **2016**, **6**, **111657**.
- 196** Ibrahim M A Mohamed; Van-Duong Dao; Ahmed S Yasin; Ho-Suk Choi; Khalil A Khalil, Nasser A. M. Barakat “*Facile synthesis of GO@SnO₂/TiO₂ nanofibers and their behavior in photovoltaics*” **Journal of Colloid and Interface Science**, **490** (2017) **303–313**.
- 195** Ibrahim M.A. Mohamed, Van-Duong Dao, Ahmed S. Yasin, Nasser A.M. Barakat, and Ho-Suk Choi “*Design of an efficient photoanode for dye-sensitized solar cells using electrospun one-dimensional GO/N-doped nanocomposite SnO₂/TiO₂*” **Applied Surface Science**, **400** (2017) **355–364**. <http://dx.doi.org/10.1016/j.apsusc.2016.12.176>.

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- 194** M. Obaid, Hend Omar Mohamed, Ahmed S. Yasin, Olfat A. Fadali, Khalil Abdelrazek Khalil, TaeWoo Kim, and **Nasser A. M. Barakat** “*Novel Strategy for Enhancing Electrospun PVDF Support layer of Thin-Film Composite Forward Osmosis Membrane*” **RSC Advances**, **6**, 2016 **102762**.
- 193** Ibrahim M A Mohamed, Khalil Abdelrazek Khalil, Hamouda M Mousa and **Nasser A M Barakat** “*Ni/Pd-decorated Carbon NFs as an Efficient Electrocatalyst for Methanol Oxidation in Alkaline Medium*” **Journal of Electronic Materials**, **46**, **1**, 2016, **265-273**. DOI: **10.1007/s11664-016-4900-z**
- 192** Yousef Ayman, Brooks Robert, M M El-Halwany, M A Abdelkareem, Mohammad, Khamaj Jabril, Mohamed H EL-Newehy, **Nasser AM Barakat**, Hak Yong Kim “*Fabrication of Electrical Conductive NiCu–Carbon Nanocomposite for Direct Ethanol Fuel Cells*” **International Journal of Electrochemical Science**, 2015, **10**, **7025-7032**.
- 191** Muzafar A. Kanjwal, Ali Qublan Shawabkeh, Martin Alm, Peter Thomsen, **Nasser A.M. Barakat**, Ioannis S. Chronakis “*Hybrid matrices of ZnO nanofibers with silicone for high water flux photocatalytic degradation of dairy effluent*” **Materials Chemistry and Physics**, **181** (2016) **495-500**
- 190** Ahmed S. Yasin, Hend Omar Mohamed, Ibrahim M.A. Mohamed, Hamouda M. Mousa, **Nasser A.M. Barakat** “*Enhanced desalination performance of capacitive deionization using zirconium oxide nanoparticles-doped graphene oxide as a novel and effective electrode*” **Separation and Purification Technology**, **171**, 2016, **34-43**.
- 189** Ibrahim M A Mohamed, Van-Duong Dao, Ahmed S. Yasin, Hamouda M Mousa, Hend Omar Mohamed, Ho-Suk Choi, Mohamed K. Hassan and **Nasser A M Barakat**, “*Nitrogen-doped & SnO₂-incorporated TiO₂ Nanofibers as Novel and Effective Photoanode for Enhanced Efficiency*”

- Dye-sensitized Solar Cells*” **Chemical Engineering Journal**, **304** (2016) **48–60**.
- 188** Ayman Yousef, M.M. El-Halwany, Mohamed H. EL-Newehy, Salem S. Al-Deyab, and **Nasser. A. M. Barakat**, “*Synthesis of Cu–S-Codoped TiO₂ Nanoparticles Supported on Carbon Nanofibers for Simultaneous Adsorption and Photocatalytic Decomposition of Reactive Black 5*” **J. Nanosci. Nanotechnol.** **2017**, Vol. **17**, **3998-4004**.
- 187** **Nasser A. M. Barakat**, Moaaed Motlak, Zafar Khan Ghouri, Ahmed S. Yasin, Mohamed H. El-Newehy and Salem S. Al-Deyab “*Nickel nanoparticles-decorated graphene as highly effective and stable electrocatalyst for urea electrooxidation*” **Journal of Molecular Catalysis A: Chemical**, **421**, **2016**, **83-91**.
- 186** Ibrahim M A Mohamed, Van-Duong Dao, Ahmed S. Yasin, Ho-Suk Choi, and **Nasser A M Barakat** “*Synthesis of novel SnO₂@TiO₂ nanofibers as an efficient photoanode of dye-sensitized solar cells*” **International Journal of Hydrogen Energy**, **41**, **2016**, **10578-10589**.
- 185** Ibrahim M A Mohamed, Van-Duong Dao, **Nasser A M Barakat**, Ahmed S. Yasin, Ahmed Yousef, and Ho-Suk Choi “*Efficiency Enhancement of Dye-sensitized Solar Cells by Use of ZrO₂-doped TiO₂ Nanofibers Photoanode*” **Journal of Colloid and interface science**, **476**, **2016**, **9-19**.
- 184** Ibrahim H. M. Aly, L. Abed Alrahim Mohammed, and **Nasser A. M. Barakat**, “*Influence of Densification Temperature on the Mechanical, Physical and Biological Properties of Bovine Bones Hydroxyapatite*” **Energy and Environment Focus**, Vol. **05**, pp. **1–6**, **2016**.
- 183** Ibrahim H. M. Aly, L. Abed Alrahim Mohammed, Saeed Al-Meerd, Khalid Elsaid and **Nasser A. M. Barakat**, “*Preparation and characterization of wollastonite/titanium oxide nanofiber bioceramic composite as a future implant material*” **Ceramics International**, **42**, **2016**, **11525-11534**.
- 182** Al-Mahmnur Alam, Zafar Khan Ghouri, **Nasser A. M. Barakat**, Prem Singh Saud, Mira Park, Hak Yong Kim “*Photoluminescent and*

Transparent Nylon-6 Nanofiber Mat Compositing by CdSe@ZnS Quantum Dots and Poly (methyl methacrylate), **Polymer**, **2016**, **85**, **89-95**.

- 181** Hend Omar Mohamed, M. Obaid¹, Khalil Abdelrazek Khalil and **Nasser A. M. Barakat** “*Power generation from unconditioned industrial wastewaters using commercial membranes-based microbial fuel cells*” **International Journal of Hydrogen Energy**, **41**, **2016** **4251-4263**.
- 180** Zafar Khan Ghouri, **Nasser A. M. Barakat**, Prem Singh Saud, Mira Park, Byoung-Suhk Kim, Hak Yong Kim “*Supercapacitors based on ternary nanocomposite of TiO₂&Pt@graphenes*” **Journal of Materials Science : Materials in Electronics**, **27**, **2016**, **3894-3900**.
- 179** M. Obaid, Zafar Khan Ghouri, Olfat A. Fadali, Khalil Abdelrazek Khalil, Abdulhakim A. Almajid and **Nasser A. M. Barakat**, “*Amorphous SiO₂ NPs- incorporated Poly(vinylidene fluoride) Electrospun Nanofiber Membrane for High Flux Forward Osmosis Desalination*” **ACS Applied Materials & Interfaces**, **8** (2016) **4561-4574**.
- 178** Ibrahim M A Mohamed, Moaded Motlak, H. Fouad, and **Nasser A M Barakat**, “*Cobalt/Chromium Nanoparticles-incorporated Carbon Nanofibers as effective Non-Precious Catalyst for Methanol Electrooxidation in Alkaline Medium*” **Nano**, **11**, **2016**, **1650049-1 - 1650049-10**.
- 177** Zafar Khan Ghouri , Awan Zahoor, Nasser A.M. Barakat , Mohammad S. Alsoufi , Tahani M. Bawazeer , Ahmed F. Mohamed, Hak Yong Kim, “*The (2 × 2) tunnels structured manganese dioxide nanorods with α phase for lithium air batteries*” **Superlattices and Microstructures**, **90** (2016) **184-190**.
- 176** Muzafar A. Kanjwal, Martin Alm, Peter Thomsen, **Nasser A. M. Barakat**, and Ioannis S. Chronakis “*Hybrid matrices of TiO₂ and TiO₂-Ag nanofibers with silicone for high water flux photocatalytic degradation of dairy effluent*” **Journal of Industrial and Engineering Chemistry**, **33**, **2016**, **142-149**.

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