



### CURRICULUM VITAE

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[www.researcherid.com/rid/A-9059-2011](http://www.researcherid.com/rid/A-9059-2011)

<https://scholar.google.com/citations?user=ZAoGLTwAAAAJ&hl=en>

<https://www.mendeley.com/profiles/mohamed-mokhtar21/>

<https://publons.com/researcher/1379707/mohamed-mokhtar-m-mostafa/>

### Research

I am Interested in advanced materials, nanomaterials with special interest in their application in heterogeneous catalysis. Solid acids and solid bases for liquid phase and gas phase reactions. In addition, I am specialist in catalyst and adsorbent characterization with particular expertise in adsorption measurements. I have published over **100** refereed publications and **9** international patents in these and related topics. I have numerous collaborative projects with public and private sector organizations. My ***h-index*** according to ***Publons*** is **29**(total no. of citations **2523**).

### Teaching

I am experienced in university teaching in physical chemistry and in teaching chemistry to non-science students. I am interested in science education at all levels and outreach.

### Distinctions (Awards)

- Cambridge Certificate for outstanding scientific achievement, 22<sup>nd</sup> December 2016.
- Cited in Marquis Who's Who in Science in 2013
- The Award of Excellence of Scientific Publication for the staff members 2017,2016,2015,2014,2013,2012, 2011 2010 and 2009 deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia
- The Award of Excellence of Citation on the Scientific Publication for the staff members 2020, 2019, 2017,2016,2015,2014,2013,2012 and 2011 deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia
- Senior Research Fellowship in 2007 (July-Sept.) from DAAD, at Chemical Reaction Technology, Erlangen-Nuremberg University, Germany.
- Senior Research Fellowship in 2003 (June-August) from DAAD, at Surface Chemistry and Catalysis Lab, Ulm University, Ulm, Germany
- Senior Research Fellowship in 1998 (May)-1999 (Sept.) from DAAD, at Institute of Chemical Engineering and Processing, Karlsruhe University, Germany under International Seminar for Chemical Engineering and Physical Chemistry Program

### Experience and Academic Appointments

6/2012 -present	<b>Professor (Full)</b>	Chemistry Dept., Faculty of Science, KAU, Saudi Arabia
08/2004-06/2012	Associate Professor	Chemistry Dept., Faculty of Science, KAU, Saudi Arabia
06/2003-08/2004	Assistant Professor	Catalysis lab.,Physical Chemistry Department, NRC, Egypt
11/1997-06/2003	Researcher	Catalysis lab.,Physical Chemistry Department, NRC, Egypt
05/1993-11/1997	Research Assistant	Catalysis lab.,Physical Chemistry Department, NRC, Egypt
06/1990-05/1993	Demonstrator	Catalysis lab.,Physical Chemistry Department, NRC, Egypt
08/1988-05/1990	Chemist	Helwan Engineering industrial company,Helwan, Egypt

## Education

- PhD (Nov.,1997) Physical Chemistry, Faculty of Science, Cairo University, Cairo, Egypt.  
*"Studies on Some Physicochemical, Surface and Catalytic Properties of CuO-ZnO supported on Gamma Alumina"*
- MSc (May,1993) Physical Chemistry, Faculty of Science, Zagazig University, Zagazig, Egypt.  
*"Studies on Some Physicochemical Characterization and Catalytic Properties of V<sub>2</sub>O<sub>5</sub> catalyst under varying conditions"*
- BSc (May,1988) Chemistry, Faculty of Science, Ain Shams University, Cairo, Egypt.

## Professional Associations

- ACS American Chemical Society (membership number: 30044788).
- ACS Catalysis Science & Technology
- AAAS American Association for the Advancement of Science
- RSC Royal Society of Chemistry (563468).
- RSC Applied Catalysis Group.
- IUPAC International Union of Pure and Applied Chemistry
- IAS International Adsorption Society
- IS 34<sup>th</sup> International Seminar for Physical Chemistry and Chemical Engineering
- ESCSC Egyptian Society for Surface Chemistry and Catalysis

## Journal Reviewer/ Editorial Board

176 Articles reviewed:

<https://publons.com/researcher/1379707/mohamed-mokhtar-m-mostafa/peer-review/>

## Research Topics

- Synthesis and characterization of nano-structured materials, zeolites, clays, hybrid and composite materials.
- Liquid phase catalytic organic synthesis of fine chemicals.
- C-C coupling reactions
- Petrochemical catalytic processes (ODH, MTP,...etc.)
- Environmental catalysis (CO oxidation, Selective catalytic reduction of nitrogen oxides DeNO<sub>x</sub>, N<sub>2</sub>O decomposition).
- Oxidation catalysis.
- Green chemistry.
- Sustainable energy research
- Photocatalysis.
- CO<sub>2</sub> adsorption, desulfurization and wastewater treatment.

## Current Academic and Industrial Collaborators

### Saudi Arabia

- King Abdulaziz City for Science and Technology (KACST)
- Saudi Basic Industries Corporation (SABIC)

### International

- BioNano consulting office, London, UK
- Imperial College, London, UK
- University College London, UK
- Utrecht University, Utrecht, The Netherlands
- Friedrich-Alexander Erlangen-Nuremberg University, Germany
- National Centre for Nano-Structured Materials, South Africa
- State Key Laboratory of Structural Chemistry,
- Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou 350002, China
- Department of Chemistry, IIT Bombay, Powai, Mumbai. 400076. India.

## Research Projects

### Previous projects

- Preparation and Characterization of Low Temperature CO-conversion catalysts; Academy of Scientific Research and Technology, Egypt (1993-1995).

- Preparation and Characterization of Cu-ZnO/Al<sub>2</sub>O<sub>3</sub> catalysts used in hydrogenolysis of dimethylmaleate; BASF, Germany (1998-1999).
- Modification of Surface and Catalytic Properties of Cu-nano-particle Catalysts used in Methanol Synthesis and Steam Reforming; SABIC, Saudi Arabia (2006).
- Kinetics of thermal degradation and surface catalytic studies of a novel hopcalite system; SABIC, Saudi Arabia (2007).
- Preparation and physicochemical studies of nano structural cobalt/manganese based hydrotalcite catalysts; SABIC (2008).
- Remediation of persistent organic pollution using chemically modified carbon nanotubes; DSR, KAU (2008)
- Preparation, characterization and surface acidity studies on heteropoly acid catalysts; MS 10-14; SABIC (2009)
- Preparation and characterization of Zirconium Modified Nano Zinc-Cobaltite Spinel for N<sub>2</sub>O Abatement; 3-37-429; DSR, KAU (2009)
- Microwave Assisted Eco-Friendly Rapid Synthesis of Pyrazolo [1,5-a] Pyrimidine Derivatives using Mg/Al-Hydrotalcite Solid Base Catalysts; MS 11/3; SABIC, KAU (2010)
- The use of KSA Kaolin in preparation of catalyst used in hydrogenation of p-nitrophenol, dsr, KAU (2010)
- Preparation and characterization of nanocomposite metal oxide supported zirconia catalysts for abatement of environmental pollutant NO<sub>x</sub> gases; 8-NAN184-3, DSR, KAU (2010-2011)
- Nanocatalysts for wastewater treatment; T-81/429; KAU/ BNC-London (2009-2011).
- Nanocatalysts for the synthesis of fine chemicals; T-80/429; KAU/ BNC-London (2009-2011).
- New Catalytic Routes and Porous Catalyst Materials for the Synthesis of Light Olefins from Alcohols derived from Natural Gas, Coal and Biomass; T-002/431; KAU UU-The Netherlands (2011-2014).
- Acidic and/or Basic Zeolite-Membranes for Separation and Catalytic Processes; D-002/432; KAU/FAU-Erlangen-Nuremberg Germany (2012-2014).
- Development of novel photocatalysts using a combinatorial chemistry approach; D-005/432; KAU/ BNC-London (2011-2014).
- Investigations into the development and application of supported LDH materials; D-005/432; KAU/ BNC-London (2011-2014).
- The design of new composite materials containing metal oxide supported 2D graphene sheets; Strategic project KAU/KACST (11-NAN2057-03).
- Highly efficient photocatalytic H<sub>2</sub> production by self-decorated Pt metal particles on TiO<sub>2</sub> nanotube (16-130-36-HiCi)
- Creating a new powerful method for preparing high performance nano-catalyst materials (1-130-1434-HiCi)
- Preparation and Characterization of Poly[(butylene succinate)-co-adipate] nanocomposites with Controlled Mechanical and Gas Barrier Properties (MG /33/8)
- Application of the synthetic magadiite clay for environmental remediation of methylene blue dye in water (130-777-D1435)
- Photocatalysis for Water Purification Applications (KAU-BioNano)
- Development of a photocatalytic water treatment demonstrator (KAU-BioNano)
- Metal oxide-zirconia based catalysts for propene production through oxidative dehydrogenation of propane in absence of oxygen. (SABIC-KAU)
- Adsorption of toxic bismuth ions utilizing nano layered silicate ilerite and pillared nano ilerite: Kinetic and thermodynamic studies (KAU)
- Noble-metal free photocatalytic H<sub>2</sub> generation from TiO<sub>2</sub> nanotubes (RG/KAU)
- Highly Efficient Nanosized Mesoporous CuO/MgAlO<sub>x</sub> Catalyst for Nitro-Alcohol Synthesis: Ultrasound Assisted Green Perspective for Henry Reaction DF-839-130-1441

### Current projects

- Synergistic effect of layered double hydroxide@Y-zeolite hybrid and mechanochemical of ball mill on Glaser homocoupling reaction (IFPHI-184-130-2020).
- New solid acid catalysts for the synthesis of some pyridopyrimidine derivatives (11/130/1436-S)
- A facile access for synthesis of novel pyrimido[1,2-a]benzimidazoles and pyrazolo[3,4-b]pyridines incorporating benzofuran moiety utilizing solid acid catalyst (147-130-383)

- Ultrasound assisted C-N cross coupling utilizing sustainable chitosan decorated Ni- nanoparticles catalyst
- Noble Metal Incorporated LaFeO<sub>3</sub> Perovskite Catalysts for Oxidative Cracking of n-Propane (SABIC)
- Direct Synthesis of Short Olefins from Syngas using Fe Supported Catalysts (SABIC)
- A new green perspective towards CH-arylation of thiazole via Chitosan decorated nanometal particles (KAU)
- Pillared clays supported Cu, Fe and Mn catalysts for NO decomposition (KAU)
- Green synthesis of novel polyhydroquinoline derivatives through Hantzsch reaction utilizing chitosan anchored copper nanoparticles catalyst
- Studies on tungsten and molybdenum oxide supported iron phosphate nanotubes for benzylation of benzene
- New green perspective to dihydropyridine synthesis utilizing modified heteropoly acid
- A sustainable green synthesis of novel pyrazoles utilizing Magnetic hydrotalcite catalyst under ultrasonic irradiation
- Chitosan decorated metal nanoparticles catalysts for direct C-H arylation: Utilization of state of the art high advanced characterization techniques. "in collaboration with university of Jeddah) and CIC nanoGUNE, Tolosa Hiribidea, 76, Donostia – San Sebastián, E-20018, Spain".(RDO 1)
- Polymer Exchange Membrane Electrolytic Cells to storage renewable energy as Hydrogen. "in collaboration with Instituto de Catálisis y Petroleoquímica (ICP) at Consejo Superior de Investigaciones Científicas (CSIC). C/Marie Curie 2, Madrid, Spin. (RDO 2)
- Zeolite Nanosheet Membranes for Separations in the Petrochemical Industry, (KAU-JHU)
- Novel Desalination Membranes Based on Open-Pore Zeolite Nanosheets, (KAU-JHU)

### Deputy for Research & Innovation

- Identifying new reaction routes for the valorization of CO<sub>2</sub>-derived methanol to fuel and chemicals through advanced spectroscopy (KAU- The Institute for Advanced Study, Wuhan University)
- Plasmonic nano metals @ 2D supports for sustainable green synthesis of novel biologically active azoles in aqueous media (KAU- CIC nanoGUNE)
- Innovative production of novel nanomaterials for low-cost water purification systems (KAU-FRSC - University of Palermo, Italy)
- Advanced strategies for (visible) solar light photocatalytic H<sub>2</sub> generation using TiO<sub>2</sub> nanotubes (KAU-FAU)

### Human Capital Development

#### Accreditation comitte

- A member of the accreditation committee at Chemistry Department, Faculty of Science, King Abdulaziz University for the undergraduate studies in collaboration with Canadian Society of Chemistry (CSC).
- A member of the accreditation committee at Chemistry Department, Faculty of Science, King Abdulaziz University for the postgraduate studies in collaboration with Royal Society of Chemistry (RSC).

#### PhD/MSc Students Graduated Under My Direct Supervision

1. Mrs. Reham Mohamed Abou El-Aineen (PhD Student, 2003- 2005, Graduated 2005, Cairo University): Studies on physicochemical, surface and catalytic properties of some transition metal oxide catalysts under varying conditions: currently a Professor (Surface Chemistry and Catalysis Lab) at National Research Centre, Cairo, EG.
2. Mr. Abdulrahman Babin (MSc Student, 2004-2005, Graduated 2005, King Abdulaziz University): Studies of the physicochemical, surface and catalytic properties of double oxide system Cu- Mn-O. Currently: Head of Chemistry Department, Al-Taif University).
3. Mrs. Reem Ibraheem (MSc Student, 2006-2007, Graduated 2006, King Abdulaziz University): Effect of preparation conditions on the formation of ZnCoO- double oxide spinel .
4. Ms. Reem A. Al-Shereef (MSc Student, 2008-2009, Graduated 2009, King Abdulaziz University): Study the texture properties of nanostructural synthetic anionic clays. (Finished her PhD in KAUST and she is a senior research fellow at KAUST).
5. Ms. Huda K. Sherbini (MSc Student, 2009-2011, Graduated 2011, King Abdulaziz University): Preparation and characterization of nanoporous zeolites: currently PhD student under my direct supervision.
6. Ms. Ebtisam Al-Sabaan (PhD student, 2009-2011, Graduated 2012, KAU): A study of nanosized layered hydrotalcites for fine chemical applications: Currently Assistant Professor (Chemistry Department, KAU)
7. Ms. Asmaa Medkhaly (MSc student, 2011): Preparation of perovskite-type oxide as catalyst in selective catalytic reduction of NO<sub>x</sub>

8. Ms. Ebtisam A-Motairi (MSc student, 2014): Benzylation of benzene over insitu generated heteropolyacid catalysts on surface of nano metal phosphates
9. Mrs. Nada Shaeel Al-Thabaiti (MSc. student 2015): Layered double hydroxide catalysts for coupling reactions
10. Ms. Huda K. Sherbini (PhD Student 2013): Partially crystalline zeolite catalysts for the conversion of alcohols into light olefins. (Currently a Post-doctoral fellow at SCCS, KAU)
11. Mrs. Ghalia Al-Zahrani (PhD student 2016-2020): Synthesis and characterization of layered double hydroxide supported nickel catalyst for Suzuki C-C coupling reactions
12. Ms. Bodour Al-Hashdi (MSc. Student 2017-2019): Mesoporous nano-sized solid base catalysts for Henry reaction
13. Mrs. Khadija S. Alghamdi (MSc. Student 2017-2019): Chitosan decorated nanoparticles for one-pot synthesis of fine chemicals
14. Ms. Wegdan Salem Saeed Bajafar (MSc. Student 2020): Physicochemical and catalytic proerties of different bimetal oxide spinel supported on CaO for biofuel production.
15. Mr. Wael Atif Halawani (MSc. Student 2020): Copper-zinc supported on different supports for biodiesel production.
16. Ms. Eman Saleem Imdad (MSc. Student 2020): Solid Base Catalysts for the Preparation of Novel Pyrazoles
17. Ms. Auhood Sultan AL-Soihi (MSc. Student 2020): Synthesis and characterization of 2D/2D photocatalysts for wastewater treatment.
18. PhD. Rahmah Al-Ammari (PhD Student 2021): Intercalation of layered double hydroxides: Synthesis and Catalytic properties.

### Lecturing

- General Chemistry (Chem. 110)
- General Chemistry (Chem. 281)
- Physical Chemistry I (Chem. 202)
- Solid State and Surface Chemistry (Chem. 345)
- Advanced Solid State and Surface Chemistry I (Chem. 690)
- Scientific Presentations and Introduction to Scientific research (Chem. 695)
- Special Topics in Physical Chemistry (Chem. 696)
- Advanced Solid State and Surface Chemistry II (Chem. 742)

### Books

- Abullah Y.Obaid, Shaeel A.Al-Thabaiti, **Mohamed Mokhtar M. Mostafa**, Mohamed S. Abdel Salam, Abou-Elhagag A. Hermas: *Chemistry For Preparatory Year Students*. Edited by Khawarizm Academic, 11/2012;
- Abdullah Y.Obaid, Shaeel A.Al-Thabaiti, **Mohamed Mokhtar M. Mostafa**, Mohamed S. Abdel Salam, Abou-Elhagag A. Hermas: *Manual Solution & Exams Models Fro University Chemistry*. 11/2012; Khawarizm Academic.
- Mohamed Mokhtar Mohamed Mostafa**: *Nanocatalysts and Solid State Chemistry: Heterogeneous Catalysis*. 11/2012; Elsevier.
- Prof.Abdullah Y.Obaid, Prof.Shaeel A.Al-Thabaiti, Dr.Mohamed Mokhtar M.Mostaa, Dr.Mohamed S. Abdel Salam, Dr.Abou-Elhagag A. Hermas: *University Chemistry*. 11/2011; Khawarizm Academic.
- Prof.Abdullah Yousof Obaid, Prof.Shaeel A. Al-Thabaiti, Dr.Abou-Elhagag A. Hermas, Dr, **Mohamed Mokhtar M. Moustafa**: *Notes In Fundamental Chemistry*. 11/2010; Khawarizm Academic.

### Research Impact

#### Patents

1. Catalyst, useful during gas-phase reaction during production of methyl isobutyl ketone, comprises a platinum group metal, a metal oxide and a nano-zinc oxide, BAGABAS A A, AKHMEDOV V M, AL-RABIAH A, **MOSTAFA M M M**, AL-RABIAH A A, AL-RABIA A A, MOLIC A V, MUSTAFA M M M , US7951976-B1 ; [EP2418017-A1](#) ; [JP2012040548-A](#) ; [CN102371153-A](#) ; [JP5492813-B2](#) ; [CN102371153-B](#)
2. Composite catalyst useful in production of methyl isobutyl ketone and isopropyl alcohol from acetone comprises platinum group metal; an activated charcoal; and nano-zinc oxide, BAGABAS A A, **MOSTAFA M M M**, AKHMEDOV V M, AL-RABIAH A A, MOLIC A V, AL-RABIA A A, MUSTAFA M M M, US2011197653-A1 ; US8110708-B2 ; [EP2517788-A1](#) ; [JP2012232288-A](#) ; [CN102744061-A](#) ; [JP5551676-B2](#) ; [CN102744061-B](#)
3. Composite catalyst, useful for making isopropyl alcohol, comprises reacting e.g. zinc sulfate, sodium pyruvate and hydroxyl amine hydrochloride, pyrolysis to get nano zinc oxide (nZnO), mixing ruthenium on

- charcoal with nZnO and grinding, BAGABAS A A, **MOSTAFA M M M**, AL-RABIAH A A, AKHMEDOV V M, US2012203034-A1 ; US8362302-B2
4. **Preparing cupric oxide-doped zinc oxide nanoparticle used e.g. as composite catalyst comprises e.g. mixing and stifling dissolved solutions of zinc nitrate hexahydrate and copper nitrate trihydrate and cyclohexylamine, followed by filtering**, BAGABAS A A, ALSHAMMARI A S, ABOUD M F, **MOSTAFA M M M**, ADDURIHEM E, AL-OTHTMAN Z A, ALANGARI M A, US2013168328-A1 ; US8623220-B2
  5. **Method of heating carbon nanotube network for e.g. for catalytic system, electrochemical device, material for absorbing solvent and petrol, and gas adsorption medium, involves applying electrical current to carbon nanotube network**, BASAHEL S N, **MOSTAFA M M M**, GARCIA GALLASTEGUI A, SCHAFFER M, GALLASTEGUI A G, WO2013093520-A2 ; WO2013093520-A3 ; [GB2516564-A](#)
  6. **Synthesizing zinc oxide nanoparticles used for photocatalytically degrading cyanide in soil or water, comprises reacting zinc nitrate hexahydrate and cyclohexylamine and suspending precipitate in ethanol**, BAGABAS A A, MOHAMED R M, ABOUD M F A, **MOSTAFA M M M**, ALSHAMMARI A S, AL-OTHTMAN Z A, US8361324-B1
  7. **Producing zinc oxide nanoparticles photocatalyst useful to remove cyanide from e.g. water comprises e.g. separately dissolving zinc nitrate hexahydrate and cyclohexylamine in ethanol at room temperature and mixing and stifling two solutions**, BAGABAS A A, MOHAMED R M, ABOUD M F A, **MOSTAFA M M M**, ALSHAMMARI A S, AL-OTHTMAN Z A, US8362094-B1
  8. **Making zinc oxide nanoparticle, comprise dissolving zinc nitrate hexahydrate in water, dissolving cyclohexylamine in water, mixing and shifting obtained solutions using magnetic stirrer, and preparing zinc oxide nanoparticle suspension**, BAGABAS A A, MOHAMED R M, ABOUD M F A, **MOSTAFA M M M**, ALSHAMMARI A S, AL-OTHTMAN Z A, US2012097522-A1 ; US8252256-B2
  9. **Method of performing coupling reactions**, **MOSTAFA M M M**, ALZHRANI G S, AAZAM E S, SALEH T S S, US 11027270B1

No.	Published Papers	I.F.	Citation
1	Th.El-Nabarawy, <b>M. Mokhtar</b> and G.A.El-Shobaky, "Texture properties of un-doped and Na <sub>2</sub> O-doped V <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts", <i>Adsorption Science &amp; Technol.</i> , 12 (1995) 27.	4.232	7
2	G.A. El-Shobaky, G.A. Fagal and <b>M. Mokhtar</b> ; "Analysis of thermally induced solid-solid interactions in vanadia-alumina system", <i>J. Thermal Analysis and Clorimetry</i> , 46 (1996) 1473.	4.626	9
3	G.A. El-Shobaky, A.S.Ahmed , <b>M. Mokhtar</b> ; "Effect of Gamma irradiation on Surface and Catalytic Properties of CuO-ZnO/Al <sub>2</sub> O <sub>3</sub> System", <i>J. Radioanal. Nuclear Chemistry, Articles</i> . 219 No.1 (1997) 89-94.	1.371	27
4	G.A. El-Shobaky, G.A. Fagal and <b>M. Mokhtar</b> ; "Effect of ZnO on Surface and Catalytic Properties of CuO/Al <sub>2</sub> O <sub>3</sub> System", <i>Applied Catalysis: A Gen.</i> 155(1997)167-178.	5.706	68
5	G.A. El-Shobaky, G.A.Fagal, A.S.Ahmed, <b>M. Mokhtar</b> , "Physicochemical, surface and catalytic properties of the Na <sub>2</sub> O-doped CuO- ZnO/Al <sub>2</sub> O <sub>3</sub> System", <i>Adsorption Science &amp; Technol.</i> , 15 No.9 (1997) 77.	4.232	9
6	G.A. El-Shobaky, G.A.Fagal, A.M.Ghozza, <b>M. Mokhtar</b> ; "Effect of Li <sub>2</sub> O doping on Surface and Catalytic Properties of CuO-ZnO/Al <sub>2</sub> O <sub>3</sub> System", <i>Colloids and Surfaces A</i> : 142 (1998) 17-25.	4.539	36
7	G.A. El-Shobaky, A.S. Ahmed, G.A. Fagal , <b>M.Mokhtar</b> ; "Solid-solid Interaction in CuO-ZnO/Al <sub>2</sub> O <sub>3</sub> system under varying conditions", <i>Thermochim. Acta</i> , 319 (1998) 67-74.	3.115	15
8	H.G. El-Shobaky, <b>M. Mokhtar</b> and G.A. El-Shobaky; "Physicochemical, Surface and catalytic properties of CuO-ZnO/ Al <sub>2</sub> O <sub>3</sub> system", <i>Appl. Catalysis A</i> : 180 (1999) 275-283.	5.706	42
9	H.G. El-Shobaky, <b>M. Mokhtar</b> , A.S. Ahmed; "Effect of MgO-doping on solid-solid interactions in Mo O <sub>3</sub> / Al <sub>2</sub> O <sub>3</sub> system", <i>Thermochem. Acta</i> 327(1999) 39-46.	3.115	17
10	H.G. El-Shobaky, W.M.Shaheen, <b>M. Mokhtar</b> ; "Surface and catalytic properties of the Co <sub>3</sub> O <sub>4</sub> /MgO System Doped with Fe <sub>2</sub> O <sub>3</sub> ". <i>Adsorption Science and Technol.</i> 19 no.8 (2001) 621.	4.232	2
11	M.M. Doheim, H.A. El-Boohy, <b>M. Mokhtar</b> and G.A. El-Shobaky; "Surface and catalytic properties of γ-Irradiated ZnO-treated Co <sub>3</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> system", <i>Adsorption Science and Technol.</i> 19 no.9 (2001) 751.	4.232	7
12	<b>M. Mokhtar</b> , C. Ohlinger, J.H. Schlender and T. Turek; "Hydrogenolysis of dimethyl maleate on Cu/ZnO/ Al <sub>2</sub> O <sub>3</sub> catalysts", <i>Chem. Eng. Technol.</i> 24 (2001) 4, 423-427.	1.728	25



13	<b>M. Mokhtar</b> , H.G. El-Shobaky, A.S.Ahmed, "Surface and Catalytic properties of $\text{Co}_3\text{O}_4/\text{Al}_2\text{O}_3$ as influenced by $\text{ZnO}$ ", <i>Colloids and Surfaces A</i> : 203, 1-3 (2002) 87-95.	3.99	8
14	N.R.E. Rdwan, <b>M. Mokhtar</b> , G.A. El-Shobaky; "Thermal behaviour of Ammonium molybdate/basic magnesium carbonate system doped with lithium nitrate", <i>J. Thermal Analysis and Calorimetry</i> , vol. 71 (2003) 977-986.	4.626	4
15	<b>M. Mokhtar</b> ; "Surface and catalytic properties of $\text{CuO}/\text{Al}_2\text{O}_3$ system as influenced by treating with trace amounts of $\text{MoO}_3$ ", <i>Adsorption Sci. Technol.</i> 21(5) (2003) 425.	4.232	2
16	N.R.E. Radwan, <b>M. Mokhtar</b> , G.A. El-Shobaky; "Surface and catalytic properties of $\text{CuO}$ and $\text{Co}_3\text{O}_4$ Solids as Influenced by Treatment with $\text{Co}^{2+}$ and $\text{Cu}^{2+}$ Species", <i>Applied Catalysis A: Gen.</i> 241 (2003) 77-90.	5.706	27
17	A.M. Salem, <b>M. Mokhtar</b> , G.A. El-Shobaky, "Electrical properties of pure and $\text{Li}_2\text{O}$ -doped $\text{NiO}/\text{MgO}$ System", <i>Solid State Ionics</i> , 170 (1-2) (2004) 33-42.	3.107	17
18	G.A. El-Shobaky, <b>M. Mokhtar</b> , A.M. Salem; "Structure and electrical transport properties of pure and $\text{Li}_2\text{O}$ -doped $\text{CuO}/\text{MgO}$ solid solution", <i>Materials Research Bulletin</i> , 40 (6) (2005) 891-902.	4.641	6
19	H. G. El-Shobaky, <b>M. Mokhtar</b> ; "Effect of $\text{Li}_2\text{O}$ and $\text{CoO}$ – doping of $\text{CuO}/\text{Fe}_2\text{O}_3$ system on its surface and catalytic Properties", <i>Applied Surf. Sci.</i> : 253 (24) (2007) 9407-9413	6.707	19
20	S. N. Basahel , E.H. El-Mossalamy , <b>M. Mokhtar</b> ; "Preparation and physicochemical characterization of thermally stable nano-sized hopcalite catalysts", <i>Int. J. Nanomanufacturing, Vol. 4, Nos. 1/2/3/4, 2009</i>	-	
21	<b>M. Mokhtar</b> , S.N. Basahel, S.A. Al-Thabaiti ; "Modification of Surface and Catalytic Properties of Cu nanostructure Catalysts used in Methanol Synthesis and Steam Reforming", <i>Int. J. Nanoparticles Vol. 2, Nos. 1/2/3/4/5/6, 2009</i>	-	
22	<b>M. Mokhtar</b> , M.W. Kadi; "Physicochemical and texture properties of nanocrystalline $\text{ZnCo}_2\text{O}_4$ spinel and the effect of $\gamma$ - irradiation on its sintering process", <i>Materials Technology, 24:2, 100-104, DOI: 10.1179/175355509X387219.</i>	3.846	3
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- 21 Javier Ruiz-Martínez, Qingyun Qian, **Mohamed Mokhtar**, Abdullah M. Asiri, Shaeel A. Al-Thabaiti, Suliman N. Basahel, Bert M. Weckhuysen, “Evolution of the Methanol-to-Olefins Intermediates Revealed by a Combined in-situ-UV-vis and IR Approach”, **XIth European Congress in Catalysis**; Sept. 1-6, 2013, **Lyon, France.**
- 22 **Mohamed Mokhtar**, Tarek T. Ali, K. Narasimharao, Tamer S. Saleh, Shaeel A. Al-Thabaiti, Sulaiman N. Basahel **International Porous and Powder Materials Symposium and Exhibition (PPM 2013)**, 3-6, September, **Izmir, Turkey**
- 23 Katabathinin Narasimharao, Tarek Ali, Sulaiman Basahel, Shaeel Al-Thabaiti, **Mohamed Mokhtar**, “Nanosized gold supported catalysts for catalytic oxidative cracking of propane”, **NANOTECH DUBAI 2013, 28-30, October, Dubai, UAE.**
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- 25 Martina de Marco, Robert Menzel, Salem M. Bawaked, **Mohamed Mokhtar**, Abdullah Y. Obaid, Shaeel A. Al-Thabaiti, Abdulrahman O. Alyoubi, Sulaiman N. Basahel, David Chadwick, Milo S.P Shaffer, “Hierarchical Carbon Nanotube-Graphene Oxide Networks As Supports For CO<sub>2</sub> Adsorbers”, Chem’On Tubes 2014, March 30th - April 3<sup>rd</sup>, **Riva del Garda, Italy.**
- 26 Robert Menzel, S. Barg, Martina de Marco, Salem M. Bawaked, **Mohamed Mokhtar**, Abdullah Y. Obaid, Shaeel A. Al-Thabaiti, Abdulrahman O. Alyoubi, Sulaiman N. Basahel, David Chadwick, Milo S.P Shaffer, “Nanostructured Carbon Networks as Electrically Heatable Support for Layered Double Hydroxides”, **Chem’On Tubes 2014, March 30th - April 3<sup>rd</sup>, Riva del Garda, Italy.**
- 27 Sulaiman N. Bashel, **Mohamed Mokhtar**, Edreese Alsharaeh, Tarek T. Ali, Hatem A. Mahmoud, Katabathini Narasimharao, “Nanostructured zirconia/graphene oxide hybrids: physicochemical studies”, **Nanotech Dubai 2015, March 26-18, Dubai, AUE.**
- 28 Mohamed Mokhtar: **Invited Speaker:** “Layered Double Hydroxides and their Application in Petrochemicals”; **the 3rd Saudi International Petrochemical Technologies Conference 2015 (3rd SIPTC)**, King Abdulaziz City for Science and Technology (KACST), 5-6 May 2015, **Riyadh, Saudi Arabia.**
- 29 Ebtesam Al-Mutairi, K. Narasimharao, **Mohamed Mokhtar:** Oral Presentation, “Highly active porous iron phosphate nanotubes deposited molybdenum oxide catalysts for benzylation of benzene”, **Third International Conference on Advanced Complex Inorganic Nanomaterials (ACIN 2015) 13 - 17 July 2015, Namur, Belgium.**

- 30 Mohamed Mokhtar: **Oral presentation:** "Layered Double Hydroxides as Efficient Alternatives to Homogeneous Catalysts in the Synthesis of Fine Chemicals"; **BIT's 6th Annual Global Congress of Catalysis-2015, Sept. 24-26, Xi'an, China**
- 31 Mohamed Mokhtar, **S.N. Basahel, Nesreen S. Ahmed:** **Oral presentation:** "Layered Double Hydroxides as Efficient Alternatives to Homogeneous Catalysts in the Synthesis of Fine Chemicals"; **1<sup>st</sup> International Conference of Applied Chemistry (ICAC-2015), Nov. 18-19, Jeddah, Saudi Arabia**
- 32 R. Menzel, Y. Wang, S. Bawaked, **M. Mokhtar**, S. Al-Thabiti, S. Basahel, M. S. P. Shaffer, D. Iruretagoyena "Graphene Oxide / Mixed Metal Oxide Hybrid Materials for Enhanced Dibenzothiophene Adsorption from Liquid Hydrocarbons Fuels"; **12th Conference on the Fundamentals of Adsorption, 29 May - 3 June 2016, Friedrichshafen/Germany**
- 33 **Mohamed Mokhtar:** Invited Speaker: "Graphene oxide supported layered double hydroxide hybrids: Synthesis and applications"; **7th annual congress on Materials Research and Technology, Feb. 20-21, 2017 Berlin, Germany.**
- 34 Ghalia Alzahrani, Elham S. Azam, Nesreen Said Ismail Ahmed, and **Mohamed Mokhtar**, Novel Efficient Pd-free Catalyst for Suzuki C-C Coupling Reaction: Sustainable and green protocol; **International Porous and Powder Materials Symposium and Exhibition (PPM 2017) Sept. 12-15, Izmir, Turkey.**
- 35 **Mohamed Mokhtar:** Invited speaker: "Cu/Co- Layered Double Hydroxides Supported Carbon Nanotubes and Graphene Oxide as Enhancing Catalysts for Carbon-Carbon Coupling via Aldol and Ullmann Reactions"; **7th Biannual Conference on Chemistry - CHEM 07, 2018, March 5-7, Cairo, Egypt.**
- 36 K.S. Alghamdi, N.S.I. Ahmed, D. Bakhotmah, **M. Mokhtar**, Chitosan-decorated copper nanoparticles for one-pot synthesis of quinoline derivatives: Green sustainable perspective, **3<sup>rd</sup> Green and Sustainable Chemistry**, 13-16 May 2018, **Berlin, Germany.**
- 37 Martina De Marco, Robert Menzel, Salem Bawaked, **Mohamed Mokhtar**, Sulaiman Basahel , Milo S.P. Shaffer , Layered Double Hydroxide@Graphene Oxide/Carbon Nanotubes Hybrid: Enhancing CO<sub>2</sub> Sorption Capacity, 12th International Symposium on the "Scientific Bases for the Preparation of Heterogeneous Catalysts" PREPA 12, July 8-12, 2018, Louvain-La-Neuve, Belgium
- 38 Ghalia Alzhrani, Nesreen S. Ahmed, Elham S. Azam, Tamer S. Saleh, **Mohamed Mokhtar**, Novel Efficient Pd-free Catalyst for Suzuki C-C Coupling Reaction: Green Protocol, 5<sup>th</sup> Edition of International Congress on Catalysis and Chemical Science, September 16-18, 2019, London, UK
- 39 **Mohamed M. M. Mostafa**, Budoor F. A. Alhashedi, Heba A. Kashmery, Nesreen S. Ahmed, Mesoporous Nano-sized CuO/MgAlO<sub>x</sub> Catalysts for Enantioselective Henry Reactions: Green Sustainable Perspectives, **International Symposium on Green Chemistry, ISGC2019**, 13-17 May 2019, La Rochelle, France
- 40 **Mohamed Mokhtar**, Katabathini Narasimharao, A.Jedidi , Sulaiman Basahel, Salem Bawaked, Tarek Ali, Nabil Alyaser, Khalid Al-Majnouni, Abdulkarim Al-Mutairi, Ahmed Al-Zenaidi, Ahmed Toseef, Nagmeddin Elwaer , Non-Conventional Oxidative Dehydrogenation of Propane to Propylene: Influence of ZrO<sub>2</sub> Phase Structure, The 11th International Conference and Exhibition on Chemistry In Industry , October 29-31, 2019, Manama Kingdom of Bahrain.
- 41 **M. Mokhtar**, K. Narasimharao, A. Jedidi, S. Basahel, S. Bawaked, T. Ali, N. Alyaser, K. Al-Majnouni, A. Al-Mutairi, A. Al-Zenaidi, A. Toseef, N. Elwaer, Non-Conventional Oxidative Dehydrogenation of Propane to Propylene over VO<sub>x</sub>/ZrO<sub>2</sub> Catalysts, **the 8<sup>th</sup> Biannual International Conference "Frontiers in Chemical Sciences"** ,Cairo, Egypt, March 2-4, 2020.
- 42 Huda S. Harun, Sulaiman N. Basahel K. Narasimha Rao, **Mohamed Mokhtar**, NP2020-020-H-ZSM-5 materials embedded in an amorphous silica matrix as catalyst in Methanol-to-Olefin (MTO) reaction, **9th Virtual Nanotechnology Poster Conference**, Budapest, Hungary 26 April 2020.
- 43 **Mohamed Mokhtar**, Tamer S. saleh, Katabathini Narasimharao, New green

- perspective to dihydropyridine synthesis utilizing modified heteropoly acid, 5th conference in catalysis and engineering, **CCE-2021**, Feb 22-26/vitual
- 44 Sulaiman Nassir Basahel, Mohamed Mokhtar, **Katabathini Narasimharao**, Noble metal (Pd, Pt and Rh) incorporated LaFeO<sub>3</sub> Perovskite catalysts for oxidative cracking of n-propane, 5th conference in catalysis and engineering, **CCE-2021**, Feb 22-26/vitual