


Curriculum Vitae

Dr. Mohamed Sayed Thabet

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Full Name	Mohamed Sayed Thabet Ismail	
Nationality	Egyptian	
Date of Birth	April 15 th , 1972	
Marital State	Married, three kids	
Highest Degree	Ph. D. in Chemistry (physical chemistry)	
Title of M. Sc. Thesis	“A study of the effect of anthraquinone during sulfite pulping of Egyptian bagasse”	
Title of Ph.D. Thesis	“Studies on The Catalytic Performance of Some Transition Metals Substituted Zeolites.”	
Specialization	physical Chemistry (surface and catalysis)	
Demonstrator	Department of Chemistry, Faculty of Science, Al-Azhar University, Cairo (1997-2002).	
Assist. Lecturer	Department of Chemistry, Faculty of Science, Al-Azhar University, Cairo (2002-2006)	
Lecturer	Department of Chemistry, Al-Azhar University, Cairo (2006 –2012)	
Associate prof.	Department of Chemistry, Al-Azhar University, Cairo (2012- now)	

COURSES TAUGHT AT AL- AZHAR UNIVERSITY

1. Surface chemistry and catalysis
2. Solid- gas- liquid and colloidal states of matter
3. Solutions and chemical equilibrium
4. Quantum chemistry
5. Electrochemistry
6. Thermodynamic
7. Polymer

RESEARCH INTEREST

1. Removal of pollutants (heavy metal, dyes and phenols) from water using plants as raw materials (rice straw, bagasse, wood).
2. Synthesis of different Zeolites such as (ZSM-5, Zeolite-X, and Mordenite), and its applications.
3. Preparation of metal-zeolite by different condition such as in-situ preparation of zeolite, Impregnation, solid-solid interaction
4. Adsorption of gases in these materials such as pyridine by using in-situ FT-IR spectroscopy

INSTRUMENTAL AND COMPUTATIONAL EXPERIENCE

1. Surface area measurement (vacuum system)
2. XRD
3. FTIR Instrument, in-Situ IR
4. UV-Vis
5. Particle size distribution
6. Thermal analysis
7. SEM, TEM

CONFERENCES

1. 6th International Chemistry Conference of Riyadh, Saudi Arabia 2016 “Sol-Gel γ -Al₂O₃ Nanoparticles assessment of the Removal of Eosin Yellow Using: Adsorption, Kinetic and Thermodynamic Parameters” Mohamed Sayed Thabet
2. International Conference of Al-Azhar University 2012 “Synthesis of Nanosized ZSM-5 Zeolite from Rice Straw Using Lignin as a Template: Characterization and Implications for Adsorption of Chromium (VI) Ions on the Surfactant-modified Zeolite” Tarek M. Salama, Ibraheem Othman Ali, **Mohamed S. Thabet**, Karam Saif El-Nasser, Ali M.A. Hassan, Mohamed Abd El-Moteleb.
3. International Conference of Al-Azhar University 2012 “MFI-type zeolite encapsulated Cu-2[benzo[b]oxazole]acetonitrile] complex: Direct synthesis of phenol by benzene hydroxylation” **Mohamed S. Thabet**, Ibraheem O. Ali, Tarek M. Salama, Karam S. El-Nasser, Ali M. Hassan.
4. International Conference of Al-Azhar University 2012 “Encapsulation of ferro- and ferricyanide complexes inside ZSM-5 Zeolite Synthesized from Rice Straw: Implication for Synthesis of Prussian Blue Pigment” Ibraheem O. Ali, **Mohamed S. Thabet**, Tarek M. Salama, Karam S. El-Nasser, Ali M. Hassan.
5. International Conference of Al-Azhar University 2010 “Synthesis of zeolite ZSM-5 from rice husk, encapsulated copper (BOA) complex” A. M. Ali, K. Saif, **M. Thabet**.
6. International Conference of Al-Azhar University 2008 “Preparation, characterization and catalytic activity study of Anderson-type heteropolymolybdates supported on different zeolite structures” Zeinoh M. El-Bahy, **Mohamed S. Thabet**, Farouk I. Zidan, Hassan M. Abd El-Bary, Ahmad Hassan.
7. International Conference of Al-Azhar University 2003 “Some aspects on sodium sulfite anthraquinone pulping of bagasse” S. M. Saad, M. B. Ghazy, N. M. Gaweesh, M. S. Shaaban, and **M. S. Thabet**

SCIENTIFIC PUBLICATIONS

- 1 Sol-Gel γ -Al₂O₃ Nanoparticles assessment of the Removal of Eosin Yellow Using: Adsorption, Kinetic and Thermodynamic Parameters. Mohamed S. Thabet, Ahmed M. Ismaiel Journal of Encapsulation and Adsorption Sciences, 2016, 6, 70-90
- 2 Preparation, characterization and catalytic activity study of Anderson-type heteropolymolybdates supported on different zeolite structures. Mohamed Sayed Thabet. American Journal of Chemistry and Materials Science. 2018; 5(3): 34-41
- 3 Saudi Arabia natural clay: characterization, equilibrium, kinetics and thermodynamics models for elimination of textile dyes. Mohamed S. Thabet, Ahmed M. Ismaiel. International Journal of Environmental Monitoring and Protection. 2018; 5(2): 31-39
- 4 Removal Of Malachite Green Dye onto Shama (Tuffil) Natural Zeolite, Al Lith, Saudi Arabian: Adsorption, Kinetics, Thermodynamic And The Multi-Stages Continues Process. Mohamed Sayed Thabet, Mohamed El-Shahate Ismaiel Saraya. Al Azhar Bulletin of Science Vol. 28, No. 2 (December), 2017. pp. 99-114
- 5 New iron containing hybrid silicates for the selective removal of arsenic oxyanions from contaminated water. Medhat Mohamed El-Moselhy and Mohamed S. Thabet, Al-Azhar Bull. Sci. Vol. (26) No. 2 Dec. 1-14. 2015
- 6 Modification of Egyptian Bagasse Kraft Pulping Using Yield - increasing Additives I-Effect on Chemical Properties M.B. Ghazy, M.S. Thabet, F. Abdel-Hai and M.E. Owda Chemistry Department, Faculty of Science, Al-Azhar University, Nasr city, Cairo, Egypt. Egypt. J. Chem. 57, No.5,6 pp. 447- 462 (2014)
- 7 Characterization and evaluation of natural zeolite as a pozzolanic material. Mohamed El-Shahate Ismaiel Saraya, Mohamed Sayed Thabet. Al Azhar Bulletin of Science Vol. 29, No. 1 (June), 2018, pp. 17-34
- 8 Encapsulation of ferro- and ferricyanide complexes inside ZSM-5 zeolite synthesized from rice straw: Implications for synthesis of Prussian blue pigment Ibraheem O. Ali, Tarek M. Salama*, Mohamed S. Thabet, Karam S. El-Nasser, Ali M. Hassan Materials Chemistry and Physics 140 (2013) 81- 88

- 9 Synthesis of nanosized ZSM-5 zeolite from rice straw using lignin as a template: Surface-modified zeolite with quaternary ammonium cation for removal of chromium from aqueous solution Ibraheem O. Ali, Mohamed S. Thabet, Karam S. El-Nasser, Ali M. Hassan, Tarek M. Salama. *Microporous and Mesoporous Materials* 160 (2012) 97–105
- 10 Preparation and characterization and photocatalytic activity of sulphated V_2O_5 - ZrO_2 catalysts for degradation of direct blue-1 dye. Ibraheem Othman Ali, Abdelrahman Farag A. Mohamed, Mohamed Thabet. *J. Int. Environmental Application & Science*, Vol. 7 (3): 661-672 (2012)
- 11 Synthesis of nanosized ZSM-5 zeolite from rice straw using lignin as a template: Surface-modified zeolite with quaternary ammonium cation for removal of chromium from aqueous solution. . Ibraheem O. Ali, Mohamed S. Thabet, Karam S. El-Nasser, Ali M. Hassan, Tarek M. Salama. *Microporous and Mesoporous Materials*, Volume 160, 15 September 2012, Pages 97-105.
- 12 Ship-in-a-bottle synthesis and physicochemical studies on zeolite encapsulated Mn(II), Mn(III)-semicarbazone complexes: application in the heterogeneous hydroxylation of benzene. M. S. Thabet, Ayman H. Ahmed in *Journal of Porous Materials* (2012).
- 13 Degradation of acid red 17 dye with ammonium persulphate in acidic solution using photoelectrocatalytic methods M. Thabet, A.A. El-Zomrawy. *Arabian Journal of Chemistry* (2016), 6S204-S208..
- 14 “Metallo-hydrazone complexes immobilized in zeolite Y: Synthesis, identification and acid violet-1 degradation” Ayman H. Ahmed, M.S. Thabet. *Journal of Molecular Structure* 1006 (2011) 527–535
- 15 Comparative study of $La_{0.7}Ca_{0.3}Mn_{0.95}Fe_{0.05}O_3$ perovskites prepared by different methods and effect of preparation on catalytic activity for hydroxylation of benzene. Mohamed S. Thabet. *Al-Azhar Bull. Sci. Vol. 22, No. 1 (June.): pp. 235-250, 2011.*
- 16 Degradation of azo dye C. I. direct violet- 4 by vanadium modified MFI zeolite powder adsorption and photooxidation in aqueous solution. Mohamed S. Thabet. *Al-Azhar Bull. Sci. Vol. 22, No. 1 (June.): pp. 219-234, 2011.*
- 17 Kinetics and thermodynamic studies on removal of cadmium metal ion from aqueous solution using rice straw, M. Thabet, A.A. El-Zomrawy, M. B. Awad, A. M. Swalem, M. Abo-Shouk. *Al-Azhar Bull. Sci. Vol. 21, No. 2 (Dec.): pp. 93-108, 2010.*
- 18 Kinetics and thermodynamic studies on removal of copper metal ion from aqueous solution using rice straw. A.A. El-Zomrawy, M. Thabet, M. B. Awad, A. M. Swalem, M. Abo-Shouk. *Al-Azhar Bull. Sci. Vol. 21, No. 2 (Dec.): pp. 109-124, 2010.*
- 19 CO/Water and UV vis Assisted Assembly of Nanostructured Platinum Wires in -Mesoporous Silica Mohamed Mokhtar Mohamed* and Mohamed Thabet. *J. Phys. Chem. C* 2008, 112, 8890–8897.
- 20 Synthesis of ZSM-5 zeolite from rice husk ash: Characterization and implications for photocatalytic degradation catalysts Mohamed Mokhtar Mohamed , F.I. Zidan ,M.Thabet. *Microporous and Mesoporous Materials* 108 (2008) 193–203.
- 21 Photo-degradation of acid green dye over Co–ZSM-5 catalysts prepared by incipient wetness impregnation technique Zeinhom M. El-Bahy , Mohamed M. Mohamed ,Farouk I. Zidan, Mohamed S. Thabet. *Journal of Hazardous Materials* 153 (2008) 364–371.
- 22 Physicochemical Studies and Heterogeneous Hydroxylation of Benzene on FeII, FeIII-Semicarbazone/Zeolite-Y Clathrates. AYMAN H. AHMED and M. S. THABET synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (2015) 45, 1632 – 1641