

CURRICULUM VITAE

PERSONAL DATA

Name	Sayed Kenawy Hamed Ibrahim
Nationality	Egyptian
Position	Professor
E-Mail	skibrahim@imamu.edu.sa
Phone	0501652148

EDUCATION

Year	Academic Degree	Institution
1988,	Very Good with Honor degree	B.Sc. Faculty of Science , Ain Shams University, Geology & Chemistry
1992	Very Good with Honor degree	M.Sc. Degree Faculty of Science Zagazig University
1995-2000		Egyptian Ph.D. Scholarship From (5 years) Financed by Egyptian Government.
Oktober 2000	Good	Ph.D. Degree Fakultät für Bergbau, Hüttenwesen und Geowissenschaften der Rheinisch-Westfälischen Technischen Hochschule Aachen. Institute für Gesteinshüttenkunde.

WORK EXPERIENCE

Period	Position	Address
1988-1992.	Research Assistant,	National Research Centre, Inorganic Chemical Industries Division, Refractories, Ceramics and Building Materials Department,
1992-2000.	Assistant Researcher	National Research Centre, Inorganic Chemical Industries Division, Refractories, Ceramics and Building Materials Department,
2001	Researcher	(Inorganic chemistry of advanced and engineering ceramics) National Research Centre, Inorganic

		Chemical Industries Division, Refractories, Ceramics and Building Materials Department,
2001-2006	Associate Professor	Inorganic chemistry of advanced and engineering ceramics National Research Centre, Inorganic Chemical Industries Division, Refractories, Ceramics and Building Materials Department, 2006.
2006-2012	Professor	Inorganic chemistry of advanced and engineering ceramics National Research Centre, Inorganic Chemical Industries Division, Refractories, Ceramics and Building Materials Department,.

RESEARCH INTERESTS

Advanced and Engineering Ceramics, Ceramic- Ceramic, Fiber- Ceramic and metal- Ceramic matrix composites (CMCs)

- 1- Interested in the preparation and characterization of hard and super-hard materials prepared via conventional and chemically route techniques, thin film coating on metal as well as ceramic substrate using Plasma and High thermal deposition techniques.
- 2- Interested in the field of corrosion and erosion of advanced and structural engineering ceramics.
- 3- Interested in the field of Bio-nano ceramic materials.
2. Interested in Ceramic Sintering and Characterization Using different Laser Techniques

PUBLICATIONS

- 1) A.A. Khalil, A.M. Kabesh and S. H. Kenawy " Physicomechanical Properties of gypsum Composites, Part I: Assessment of the gypsum Plaster, Bulletin of the Faculty of Science, Zagazig University, vol. 18/26 (1992).
- 2) A.A. Khalil, A.M. Kabesh and S. H. Kenawy " Evaluation of Gypsum Plaster for Composites, 9th Arab Chemical Conference (1993).
- 3) A.A. Khalil and S. H. Kenawy " Preparation and Characterisation of Gypsum Plaster Composites with Polymethylmethacrylate, 9th Arab Chemical Conference (1993).
- 4) A.A. Khalil, A.S. Badran and S. H. Kenawy " Infra Red Spectroscopic Characterisation of Gypsum Composites, 4th National Conference on Optical Spectroscopy, Laser and Their Applications (1994).
- 5) A.A. Khalil, H. El-Didamony, A.S. Badran and S. H. Kenawy " Spectral Features of Gypsum Epoxy Composites Prepared at Lab Conditions and at 60°C., 4th National Conference On Optical Spectroscopy, Laser and Their Applications (1994).

- 6) S. H. Kenawy " Mechanical Properties of Alumina-Zirconia and Alumina-Zirconia-Silicon Carbide Ceramics,, The Wall Street Journal Aachen vol. VI, No. 1 pp. 51-54 (2000).
- 7) Sayed Kenawy Hamed Ibrahim " Mechanical Properties of Alumina-Zirconia and Alumina-Zirconia-Silicon Carbide Ceramic Composites, Verlag Mainz GmbH: Aachen, ISBN 3-89653-791-1 (2000).
- 8) S.H. Kenawy, R. Telle and M.A. Serry " Microstructure and Mechanical Properties of Some Composites Within the Al_2O_3 - ZrO_2 -SiC System,, Published in 44th International Colloquium on Refractories, Aachen, Germany 2001.
- 9) S.H. Kenawy, H. H. Darweesh, M. M. Radwan " *Physicomechanical Properties of β -Hemihydrate and Silica Fume Composites* " *Industrial Ceramics Vol. 22, No. 2 (2002) pp. 97-101.*
- 10) W.M. Naguib, S.H. Kenawy, "Oxidation Mechanisms of SiC - Platelets and Particulate-Reinforced Alumina/ ZrO_2 Matrix Composites" *Journal of Material Science* 38 (8): 1673-1678 (2003).
- 11) S.H. Kenawy, H.H. Darweesh, M.M. Radwan " Behaviour of β -Hemihydrate in Presence of White Portland Cement" published in *Elcemento Journal* N. 780 October (2002).
- 12) M. Awaad and S. H. Kenawy. "Sintering of Zircon; the Role of Additives" *British Ceramic Transaction* Vol. 102 No. 2 (2003).
- 13) S.H. Kenawy, W.M. Naguib "Microstructural Evaluation of Thermally Fatigued SiC Al_2O_3 / ZrO_2 Matrix Composites" *Journal of Materials Science* 40 3789-2793 (2005).
- 14) S. H. Kenawy and M. Awaad "Studies on Some Mullite-Zircon-SiC Compositions" *Interceram* Vol. 53 (6) (2004).
- 15) S. H. Kenawy "Studies on SiC-Particulate Reinforced Tetragonal Zirconia Polycrystalline (yttria)-TZP matrix Composites" *Egypt. J. Chem.* 49, No. 3, pp. 371-380 (2006).
- 16) H.H. Darweesh, M.M. Radwan and S.H. Kenawy " Effect of Some Polymers on the Hydration of Portland Cement Pastes" 7th Arab International Conference On Polymer Science & Technology and 3rd Arab Conference On Material Science (ACMS-III) October 5-9 (2003), Cairo-Hurghada, EGYPT.
- 17) S.H. Kenawy and N.M. Khalil "Method for Preparation of Cordierite - Silicon Carbide Refractory Ceramic Composites " Patent No. 360-8-(2005).
- 18) N.M. Khalil and S.H. Kenawy "In-Situ Cordierite-Silicon Carbide Composite" *American Ceramic Society Bulletin*, Vol. 87, No. 7 (2008).
- 19) S.H. Kenawy and M. Mahmoud "Wear Properties of the Al_2O_3 - ZrO_2 and Al_2O_3 - ZrO_2 -SiC Composites" THE 7th INTERNATIONAL CONFERENCE OF THE EGYPTIAN SOCIETY OF TRIBOLOGY, 27-28 December 2006, Faculty of Engineering, CAIRO UNIVERSITY, EGYPT.
- 20) S.H. Kenawy and M.M. Mahmoud " Scratching Behavior of Alumina-Zirconia and Alumina-Zirconia-Silicon Carbide Ceramic Composites" *American Ceramic Society Bulletin*, Vol. 87, No. 5, May (2008).
- 20) Hanan Beherei; S.H. Kenawy; J. El-Basiouny. "Silicon Carbide/ Hydroxyapatite Biocomposites for Biomedical Application" Published in 1st International conference on Materials Science and nanotechnology 2-4 December (2007) National Research Centre Cairo, EGYPT. Published in The 10th European Inter-regional conference on Ceramics proceed. P.280- 290, (2006).
- 21) Yaser B. Saddeek, Moenis A. Azooz and S. H. Kenawy " Constant of Elasticity of Li_2O - B_2O_3 -Fly Ash: Structural Study by Ultrasonic Technique" *Materials Chemistry and Physics* (2005).

- 22) Yaser B. Saddeek, Moenis A. Azooz and S. H. Kenawy " Effect of Fly Ash on $\text{Li}_2\text{O}-\text{B}_2\text{O}_3$ -System: Structural Study by Pulse Echo Technique" Archives of Acoustics 30, 3, 357-371 (2005).
- 23) S.H. Kenawy, U.S.A. Rashed "Microstructure and Properties of $\text{Al}_2\text{O}_3/\text{ZrO}_2$ Composites Deposited Via Dens Plasma Focus" Published in the Egyptian J. of Applied Science (2006).
- 24) U.S.A. Rashed and S.H. Kenawy "Synthesis and Microstructure of Nano-Sized SiC Using Dens Plasma Focus" Published in 1st International conference on Materials Science and nanotechnology 2-4 December (2007) National Research Centre Cairo, EGYPT.
- 25) S. H. Kenawy and U. Rashed "Deposition of Nano Sized $\text{Al}_2\text{O}_3/\text{B}_4\text{C}$ Ceramic Composites on Al Substrate using Dens Plasma Focus Technique" Under Publication.
- 26) S. H. Kenawy and U. Rashed "Microstructure and Properties of Nano Sized $\text{Al}_2\text{O}_3/\text{B}_4\text{C}$ Ceramic Composites Deposited on Sintered Mullite Bodies using Dens Plasma Focus Technique" Under Publication.
- 27) S. H. Kenawy, M. Awaad and H. Awad "In-Situ Mullite–Zirconia Composites from Kaolin" American Ceramic Society Bulletin, Vol. 85, No. 11 (2006).
- 28) S. H. Kenawy "Synthesis and Some Properties of $\text{Al}_2\text{O}_3-\text{ZrO}_2$ and the Hot-Pressed $\text{Al}_2\text{O}_3-\text{ZrO}_2-\text{SiC}$ Ceramic Composites" Egypt. J. of Appl. Sci., 21 (6) 2006.
- 29) S.H. Kenawy, M.Awaad, H. Windsheimer, P.Greil, and S.M.Naga "POROUS Si/SiC COMPOSITE BASED ON NON-WOVEN CELLULOSIC FABRICS" Published in International Journal of Applied Ceramics Technology 5 (6) 618-623 (2008).
- 30) I.H. Abd El Maksod, S.H. Kenawy and Tamer S. Saleh " The effect of the Crystalline Phase of Mullite Ceramic Material on the Catalytic Activity of Nano Nickel Catalyst in the Hydrogenation of P-Nitrophenol " Published in 1st International conference on Materials Science and nanotechnology 2-4 December (2007) National Research Centre Cairo, EGYPT Applied Surface Science 255 (2009) 3471–3479
- 31) Abd El Maksod, I.H., Hegazy, E.Z, Kenawy, S.H., Saleh, T.S. (An environmentally benign, highly efficient catalytic reduction of p-Nitrophenol using a nano-sized nickel catalyst supported on silica-alumina(2010) Advanced Synthesis and Catalysis, 352 (7), pp. 1169-1178. Cited 3 times.
- 32) M. Awaad, S. H. Kenawy and S. Naga "Effect of High Temperature Treatment of the Properties of Cordierite-Zirconia Composites" Published in the 13th International Conference on Applied Mechanics and Mechanical Engineering, May 27-29, 2008., *INTERCERAM* Vol. 58 (2009) (1) Pp. 26-30.
- 33) S. H. Kenawy " Synthesis and Characterization of Aluminum Borate Ceramic Whiskers " Published as poster in Taibah International Chemistry Conference – 2009 Marsh 23 – 25, 2009, Taibah University Al-Madinah Al-Munawarah, Saudi Arabia. Published online in the International Journal of Applied Ceramic Technology (2010) Published Online: May 21 2010
DOI: 10.1111/j.1744-7402.2010.02505.x. Int. J. Appl. Ceram. Technol., 8 [4] 783–792 (2011)
- 34) H. El Didamony, H. S. A. El Whahab, S. H. Kenawy, M. Awaad and S. M. Naga "Laminated Si/SiC Composites" Published in the 3rd Scientific Environmental Conference "Future Mission for the Environmental Developments" , Faculty of Science Zgzig University 23-24 June (2008).
- 35) M. M. Gomaa, S. H. Kenawy and H. S. A. El Whahab,"Electrical properties of Aluminum Borate Ceramic whiskers Prepared via a precipitation Method" Under Publication.
- 36) S. M. Naga, S. H. Kenawy, M. Awaad and H. S. Abd. El Whahab, T. Khalifa and P. Greil "Synthesis and Characterization of Laminated Si/SiC Composites" the 3rd International Conference on Inorganic Chemical

- Industries & Mineral Resources "Recent Trends and Advanced Applications" National research Centre Cairo, EGYPT 1 & 2 February, (2009),
- 37) S. H. Kenawy, R. Hippler and Abhijit Majumdar "Characterization of Al/Al₂O₃ Ceramic Films metal substrate Deposited by DC-Planar Magnetron on Metal substrates" accepted as abstract in the 1st International Joint Conference on Materials Science, Nanotechnology and Biotechnology "Future Challenges" National Research Centre, Cairo, EGYPT January 4-6 2009. Accepted as poster in the 4th International Conference on Surfaces, Coatings and Nanostructured Materials (NanoSMat-2009) Rome (ITALY).
- 38) E.M.A. Hamzawy, S.H. Kenawy and O.A.El-Harbi: Nanocomposites based on SiC/borosilicate glass for electronic insulator. Prepared for submission.
- 39) S.H. Kenawy, F. Ali Ashraf, E.M.A. Hamzawy, H. Beherei.: "Sol-gel Synthesis of Wollastonite-Phosphate Compositions Reinforced with Nano-SiC Ceramic for Biomedical Applications". *Interceram* 59 (2010) [5].
- 40) A. A. Khalil, S. H. Kenawy, and H. F. El-Maghraby, "Evaluation of Gypsum Plasters for Composites" 17th International Congress of Chemical and Process Engineering, August 27-31 (2006), Prague, Czech Republic.
- 41) M. Awaad, S. H. Kenawy, M. A. El-Kherbawi and S. M. Naga "Microstructural Evolution of porous biomorphous WC and SiC Ceramics" *INTERCERAM* 59 (2010) [3-4]
- 42) S.H. Kenawy and R. Telle "Mechanical Properties and Microstructure of Al₂O₃-ZrO₂ and Al₂O₃-ZrO₂-SiC Ceramic Composites" Accepted for Publication in the *Journal of Chemistry and Chemical Engineering*, USA (2010).
- 43) S.M.Naga, S.H. Kenawy, M Awaad, E.Roos, A.Lyutovich, Ruoff and R.Krisch "Combined Zirconia Toughened Alumina Multilayer Stacks Obtained by Electron Beam Physical Vapour Deposition" *Ceramics International* 37 (2011) 771-777.
- 44) Beherei, Hanan. H. S. H. Kenawy and Gehan T. El-Bassyouni " HA/SiC Composites for Biomedical Applications" *Egypt. J. of Appl. Sci.*, 23 (9) 2008.
- (45) S.H. Kenawy and M. Mahmoud "Scratching Behavior of the Al₂O₃-ZrO₂ and Al₂O₃-ZrO₂-SiC Ceramic Composites" Published in *American Ceramic Society Bulletin*, Vol. 87, No. 5 (2008).
- 46) Y. E. Greish S. H. Kenawy S. I. Habib T. A. Moussa H. A. Shalaby M. El Deftar " Development of Novel ZnO-doped Hydroxyapatite Polycarboxylate Dental Cement: Characterization and *in vitro* Evaluation" *J. Ceram. Sci. Tech.*, Vol. [2] 4 (2011) DOI: 10.4416/JCST2011-00022.
- 47) B.M. Abd El -Hady E.M.Ghazal S.H. Kenawy A.M. Ibrahim A.Al-Wassil " Inorganic – organic hybrids based on PVA and Silica through biomimetic process " *Journal of Scientific Research in Science Ain Shams University Faculty of Women*, Volume (28) (2011).
- 48) S. H. Kenawy M. M. Mahmoud I. H. M. Aly and L. Abed Alrahim Mohammed "Physicomechanical Characterization of Wollastonite Ceramic Composite prepared via Sol-Gel Technique for Biomedical Applications" submitted to [International Conference on Materials Science and its Applications – \(2012\)](#).
- 49) S. B. Hannaa, M. A. Wassefb, S. H. Kenawy and N. A. Ajibaa. SOME FACTORS AFFECTING THE PROPERTIES AND MICROSTRUCTURE OF FOAMED FIRECLAY REFRACTORIES. *Journal of Scientific Research in Science Ain Shams University Faculty of Women*, (2012).

- 50) Salma M. Naga, Sayed H. Kenawy, Mohamed Awaad, Hamada S. Abd El-Wahab, Peter Greil, Magdi F. Abadir “Synthesis and characterization of laminated Si/SiC composites” *J. Adv. res.*, vol. 4, issue 1, pp. 75-82, (2013).
- 51) S.H. Kenawy, M.M. Mahmoud, I.H.M. Aly, L. Abed Alrahim Mohammed “Synthesis of Calcium Silicate Ceramic via Sol-Gel Technique” *Interceram* 62 (2013) [5]
- 52) S.M. Naga, B. M. Abd El –Hady, H. F.El-Maghraby, M.Awaad, I. M.Mohamed, S. H. Kenawy” Inorganic--organic hybrids based on PVA and Silica: development and characterization” 13th International Conference of the European Ceramic Society (ECERS XIII), Lemoge, France, 23-27 June, (2013).
- 53) S. B. Hanna, M.A. Wassefb, S.K. Ibrahim and N.A. Ajiba “Some factors affecting the properties and microstructure of foamed fireclay refractories” *The Refractories Engineer* March (2014), 22-27.
- 54) S. H. Kenawy, H.H.M. Darweesh “Synthesis of (xMgO–yAl₂O₃–5SiO₂) Ceramic via the Sol-Gel Technique in Air and under Nitrogen Gas Flow” *Interceram* 64 (2015) [8]
- 55) Sayed H. Kenawy¹, Mohammad L. Hassan^{2,3}. (Synthesis and Characterization of Low coat High Purity Alumina Nano Tubes and/or Nano Rods via Co-precipitation Method Using Nano cellulose Aerogel Template) Patent – No. **28896-(2018)**.
- 56) Gehan T. El-Bassyouni, Hanan H. Beherei, Khaled R. Mohamed, Sayed H. Kenawy “Fabrication and bioactivity behavior of HA/bioactive glass composites in the presence of calcium hexaboride” *Materials Chemistry and Physics* 175 (2016) 92-99
- 57) S.H. Kenawy and Elsayed Elmaghraby “A cladding for nuclear reactor elements and method for the same” Patent-No.1746 (2016).
- 58) S.H. Kenawy^a, M. Hassan^b, Abou-Zeid, R. I^b and Gehan T. El- Bassyouni^a (Synthesis Low Temperature Cristobalite Na_{1.55}Al_{1.55}Si_{0.45}O₄/Mullite ceramic fibers using Nano Cellulosic Fibers Aerogel Template) *Interceram* 66 (2017) [3–4].
- 59) Sayed H. Kenawy, Elsayed K. Elmaghraby (Experimental determination of effective density of Al₂O₃-SiC-ZrO₂ ceramics porous phase using gamma ray attenuation) *Int. J. Nuclear Energy Science and Technology*, Vol. 11, No. 2, (2017). DOI: 10.1504/IJNEST.2017.10006743
- 60) Nabila Ammar, Ahmed Fahmy A. Youssef , S. H. Kenawy, E. Hamzawy, M.A. El-Khateeb (Wollastonite Ceramic/CuO Nano- Composite for Cadmium Ions Removal From waste water) Accepted for publications *Egyptian Chemistry Journal* (2017).
- 61) Muhammad S. Mansy, R.S. Hassan, Y.T. Selim, S.H. Kenawy (Evaluation of synthetic aluminum silicate modified by magnesia for the removal of ¹³⁷Cs, ⁶⁰Co and ¹⁵²⁺¹⁵⁴Eu from low-level radioactive waste) *Applied Radiation and Isotopes* 130 (2017) 198–205.
- 62) *M.A. El-Khateeb, S.H. Kenawy, E. Hamzawy, Ahmed Fahmy A.Youssef and Nabila Ammar* (ENVIRONMENTAL POLLUTION PREVENTION VIA HEAVY METAL REMOVAL) Book Chapter (Waste Management and Utilization Techniques), [International Edition] Volume -I (2017), Book Proposal No.: 1423, ISBN: 978-93-86138-88-0, Published by International Research Publication House Head Office: B-2/84, Ground Floor, Rohini Sector-16, Delhi-110089, INDIA.
- 63) E.M.A. Hamzawy, S.H. Kenawy, A.A. Abd El Aty, G.T. El-Bassyouni “Charecteriztion of wollastonite-copper nanoparticles synthesized by a wet method” *67th Volume Interceram* 3 | 2018

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- 65) Ali A. M. Yassene, Moussa Al-Aqsum, S. H. Kenawy and H. H. M. Darweesh "Light-Weight highly porous building bricks from sawdust" accepted for publication in Journal of Jazan University (2018).
- 66) Mostafa Mabrouk, Shaimaa A. ElShebiney, Sayed H. Kenawy, Gehan T. El-Bassyouni and Esmat MA Hamzawy (Novel, cost-effective, Cu-doped calcium silicate nanoparticles for bone fracture intervention: Inherent bioactivity and in vivo performance) J Biomed Mater Res Part B (2018): 00B:000-000. DOI: 10.1002/jbm.b.34130.
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- 74) S.H. Kenawy, U.M. Rashed (Synthesis of SiC Nanoparticles on Aluminum Metal Using a Dense Plasma Focus) *Interceram 68th Volume 4* | (2019).
- 75) G.T. El-Bassyouni, S.H. Kenawy, R.S. Hassan, M. Mabrouk, E.M.A. Hamzawy (Removal of 137Cs and 152+154Eu Using Hydroxyapatite Prepared from Mussel Shells) *Interceram 68th Volume 36-41* (2019).
- 76) Manal A. Mahdy, Sayed H. Kenawy, I. K. El Zawawi, Esmat M. A. Hamzawy, Gehan T. El-Bassyouni (Optical and Magnetic Properties of Wollastonite and its Nanocomposite Crystalline Structure with Hematite) *Accepted for publication in Ceramics International Journal 2019*.
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- 80) HHM Darweesh, SH Kenawy (Light-weight highly porous building bricks from sawdust) Indian Journal of Engineering 17 (47), 193-202 (2020).
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- 87) Manal A Mahdy, IK El Zawawi, Sayed H Kenawy, Esmat MA Hamzawy, Gehan T El- Bassyouni (Effect of zinc oxide on wollastonite: Structural, optical, and mechanical properties) Ceramics International Available online 29 November 2021 In Press, Corrected Proof, doi.org/10.1016/j.ceramint. (2021).11.282.
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