





Curriculum Vitae of
Maryam Hosseini Zori
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Personal Details

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Telephone : Mobile: 0098-9125784171  Work: 0098-21-22955946  Fax: 0098-21-22947537	Date of birth: 12/07/1976 Single Nationality: Iranian

Education and Qualifications

Year	Qualification	Institution
1990-1994	Diploma in Math and physic.	Bentol Hoda High School, Qom, Iran
1994-1998	B.Sc. in Material Eng.	Metallurgy engineering Department, Iran's University of Science and Technology, Tehran, Iran
1998-2001	M.Sc. in Ceramic Eng.	Ceramics engineering Division, Materials and Energy Research Center
2001-2007	PhD in Material Eng.	Metallurgy engineering Department, Tarbiat Modares University, Tehran, Iran
2006	Post & Scholarship during the PhD period and	University of Modena and Reggio Emilia, Dipartimento Ingegneria dei Materiali e dell'Ambiente, (Modena, Italy)

Articles

Synthesis and Characterization of Anti-Scratch and Anti-Corrosion Hybrid Nanocomposite Coatings Based on Sol-Gel Process	Silicon
Effect of solvents and dispersants on polyol synthesis of V-ZrSiO ₄ nanopigment stable suspension for ink application,	Journal of Coatings Technology and Research
Synthesis and Characterization of Superhydrophobic-Superoleophobic and Anti-Corrosion Coatings via Sol-Gel Process	Journal of Organic Polymer Materials, 2020, 10, 1-15
Produce hydrophobic-oleophobic polymer coatings base on perfluorooctyltriethoxy silane	1 st international Conference on recent developments in information science, engineering and technology-20Jun.2019
Synthesis, Characterization and Investigation of Photocatalytic Activity of Transition Metal-doped TiO ₂ Nanostructures,	Prog. Color Colorants Coat. 11 (2018), 209-220
Effect of dopant (Co, Ni) concentration and hydroxyapatite compositing on photocatalytic activity of titania towards dye degradation,	Journal of Photochemistry and Photobiology A: Chemistry 356 (2018) 57–70
Co-doped TiO ₂ nanostructures as a strong antibacterial agent and selfcleaning cover: Synthesis, characterization and investigation of photocatalytic activity under UV irradiation,	Journal of Photochemistry & Photobiology, B: Biology 178 (2018) 512–520
Study on cytotoxicity and photocatalytic properties of different titania/hydroxyapatite nanocomposites prepared with a combination of sol–gel and precipitation methods,	Research on Chemical Intermediates March 2018, Volume 44, Issue 3, pp 1945–1962
Synthesis and Characterization of Ni-doped TiO ₂ Nanostructures as an Active Selfcleaning Cover on Floor-Tile Surface	J Clust Sci -DOI 10.1007/s10876-017-1216-y
Preparation of self cleaning and anti bacterial ceramic tile by sol-gel coating of silver doped nano anatase pigment	The 6th International Color & Coating Congress 2015
Coating of ZnO–TiO ₂ nano composite on ceramic tiles by sol-gel and photocatalytic property study	The 6th International Color & Coating Congress 2015
Study on the hydrophobized changes in wettability of sol-gel synthesized nano titanium dioxide films,	Advanced Materials Research 829 (2014) pp 362-365
Synthesis and characterisation of hematite-zircon nanocomposite By sol – gel method	Advanced Materials Research 829 (2014) 544-548
Study on anti-corrosion property of synthesized nano zirconia by sol-gel,	1 st international conference on Tile, Ceramicand sanitary ware 2014
Synthesis of nano copper for application in antibacterial tiles and study on properties	1 st international conference on Tile,Ceramicand sanitary ware 2014
Effect of Fe precursor on Zircon–Hematite ceramic pigment formation by sol-gel method in order to ceramic application	1 st international conference on Tile, Ceramicand sanitary ware 2014
Substitution of a fraction of zircon by cristobalite in nano hematite encapsulated pigment and examination of glaze application,	Journal of Advanced Ceramics 2013, 2(2): 149–156
Study on Microstructure of Nano Hematite Encapsulated by Zircon	Journal of Microscope Research, vol 8, no

and Cristobalite in Ceramic Pigment and Examination of Glazes Application	<i>1,pp 1-6, 2013</i>
Microemulsions synthesis of nano zircon inks for ceramic application forming by jet-printing	<i>UFGNSM 2013 4th international conference on Ultrafine Grained and Nanostructured Materials</i>
Ink-jet printing of micro-emulsion TiO ₂ nano-particles ink on the surface of glass	<i>Journal of the European Ceramic Society 32 (2012) 4271–4277</i>
Nano Encapsulation of Hematite into Silica Matrix as a Red Inclusion Ceramic Pigment	<i>Journal of Alloys and Compounds, 2011; 510:83-86</i>
Synthesis of TiO ₂ Nanoparticles by Microemulsion /Heat Treated Method and Photodegradation of Methylene Blue	<i>Journal of Inorganic and Organometallic Polymers and Materials , 2011;21, 81–90</i>
Synthesis of Hematite-Zircon-Silica Nano Composite as a Non toxic Ceramic Pigment by Sol-Gel Method	<i>Ceramic Transactions, March 2010;Vol. 210, 60-65</i>
Effect of synthesis parameters on a hematite-silica red pigment obtained using a coprecipitation route	<i>Dyes and Pigments, 2008;77, 53-58</i>
Effective Factors on Synthesis of the Hematite-Silica Red Inclusion Pigment	<i>Ceramic International, 2008;34, 491–496</i>
Synthesis and Study on Effect of Ceramic Matrix on Nanocomposite Hematite Pigment by Wet Chemical Method	<i>JCST (Journal of color science and technology) -inpress</i>
Synthesis of TiO ₂ Nanoparticles in Reverse Microemulsion and Microstructural Changes of Particles During Calcination	<i>JCST-Vol.5,No.1, Spring 2011, 43-50</i>
Synthesis of Nano Encapsulate Pigmen in system of Hematite-Zircon-Silica by Sol-Gel route	<i>World of Nano, 2011;No.20, 51-53</i>
Synthesis of Inclusion Nano Composite as a Non toxic Red Ceramic Pigment by Sol-Gel Method	<i>9th International Symposium on Ceramic Materials and Components for Energy and Environment Applications, 2008 in China</i>
Synthesis of Silica-titania nanocomposite as a self cleaning ceramic pigment	<i>12th International Conference of the European Ceramic Society, EcerS XII, 19-23 June, 2011 in Stockholm, Sweden</i>
Synthesis of Encapsulated Nano Composite in the System of Hematite-Alumina-Silica	<i>11th International Conference of the European Ceramic Society, 21 – 25 June 2009 in Poland, Krakow</i>
Synthesis of Nano Hematite Encapsulated into Titana as a Non Toxic Red Pigment	<i>International Conference on Nanotechnology: Fundamentals and Applications, Aug. 4 - 6, 2010 in Canada, Ottawa,</i>
Synthesis of TiO ₂ Nanoparticles in Reverse Microemulsion and Microstructural changes of particles during calcination	<i>International Conference on Nanotechnology: Fundamentals and Applications, Aug. 4 - 6, 2010 in Canada, Ottawa,</i>
Encapsulation of Nano Hematite into System of Alumina-Silica Compositeas a Non Toxic Red Pigment	<i>3rd International Conference on Nanostructures, March 10-12, 2010</i>
Stability Examination of the New Inclusion pigments in the Ceramic Glazes	<i>3rd International Color and Coatings Congress, 16-18 Nov. 2009</i>

Synthesis of Nano Composite Inclusion as a Red Ceramic Pigment	3rd Iranian Nano tech. Symp., 2008
Synthesis of Zircon-Hematite-Silica nano composite as a nontoxic ceramic pigment	The Iran National Symposium on the New Materials., 2008
Identification of the Inclusion Efficiency of the Zircon-cristobalite-Hematite Nanocomposite Pigment	2nd International Congress on Nanoscience and Nanotechnology, 2008
Investigation of Glaze Formulation Effects on the Stability of the Nanocomposite Inclusion pigments	2nd International Congress on Nanoscience and Nanotechnology, 2008
Synthesis of environmental and nanocapsulate hematite into zircon, alumina and silica by wet chemical route	8 th Iranian ceramic Conf., 2011
Synthesis of Hematite-Silica Nano Composite Pigment and Study on Inclusion ability of System	7 th Iranian ceramic Conf., 2009
Synthesis of Hydroxyapatite for Medical Applications	5 th Iranian ceramic Conf., 2005

Research work

1997-1998	Ni-Zn Ferrites B. S. project, Iran's University of Science and Technology, Tehran, Iran
1997 Summer	A sort Training Course Kaben Porcelain Co. and Irana Tile Co., Tehran, Iran
1997-1998	Electrophoresis Ceramic engineering Division, Materials and Energy Research Center, Tehran, Iran
1998-1999	Important Factors in the Extrusions Forming Ceramic engineering engineering Division, Materials and Energy Research Center, Tehran, Iran
1998-2001	Synthesis of Hydroxyapataite for Medical Applications M. S. Project, Ceramic engineering Division, Materials and Energy Research Center, Tehran, Iran
2002-2004	Teaching and research The Consult of Energy and Home Appliance Office, Tehran, Iran
2003-2006	Synthesis of Hematite-Silica nano composite as a red Inclusion pigment (Sol-Gel, Co precipitation and ceramic Method) PHD Project, Metalurgy engineering Department, Tarbiat Modares University, Tehran, Iran
	Search routes, Entrepreneurship, AFM & STM Analysis, IT and Creativity Course Tarbiat Modares University, Tehran, Iran
2006	Inorganic pigment, work with several instruments such as: SEM, TEM, AFM, XRD, IR, Colorimetry (CIE Lab) During the PhD period, 6 months of study and research at the University of Modena and Reggio Emilia, Dipartimento Ingegneria dei Materiali e dell'Ambiente, (Modena, Italy) with the scientific guide of Prof. T. Manfredini and Dott.ssa F. Bondioli
2007-...until now	Assistant Professor of the Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology (<i>related to the ministry of science and technology of Iran</i>), Tehran, Iran
2007-2008	Manager and responsible of the furnaces lab. in the Department of Inorganic Pigments and Glazes, (contain 7 high temp. furnaces and a special tube furnace from Carbolite Co. with Hydrogen atmosphere and its efficiency-safety instrument
2007-2008 Research	Synthesis of Zircon-Hematite-Silica nano composite as a ceramic Inclusion pigment (with high chemical-thermal stability)

Project	Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2008-2009 Research Project	Investigation Effective Factors of Producing color in Ceramic Glaze on its changes of Color Coordinates Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2008-2010 Industrial	Fabrication Process of Antibacterial Tile via the Nanotechnology by the Iranian Raw Materials Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran co work with Nano Pishtaz Pars Company
2010-2011	Industrial production of third fire photoluminescence ceramic and tile in order to safety, Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran co work with Nano Pishtaz Pars Company
2008	Investigation of Glaze Formulation Effects on the Stability of the Nanocomposite Inclusion pigments, Project of my Scholar (I was supervisor Prof.)
2008	Bioactive glaze and its application, Project of my Scholar (I was supervisor Prof)
2009	Synthesis of Nanocomposite based on Titania by the Microemulsion, Project of my Scholar (supervisor Prof.)
2010	Synthesis of β -tricalcium phosphate as a bioreverse nano powder for drug deliver application, Project of my Scholar (supervisor Prof.)
2009-2010	Synthesis of Environmental and Pearlized Red Pigment by wet chemical Method Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2010-2011	Synthesis of Environmental Hematite titana Inclusion Pigment Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2010-2011	Synthesis of Inorganic Non toxic Antibacterial Pigment by Microemulsion Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2011-2012	Preparation of self cleaning glass by ink jet printer Department of Inorganic Pigments and Glazes with collaboration Department of color printing, Institute for Color Science and Technology, Tehran, Iran
2011-2012	Synthesis of Environmental and Pearlized Blue Pigment by wet chemical Method Department of Inorganic Pigments and Glazes, Institute for Color Science and Technology, Tehran, Iran
2011-2-12	Editor of the Journal of Alloys and Composites (in Persian)
2011-2-12	Synthesis of Antibacterial Nano Pearl Pigment based on Mica
2012-2-13	Synthesis of Environmental and Pearlized Green Pigment based on Mica
2012-2-13	Examination on Synthesis of Nano luminescence Pigment
2013-2-14	Investigation of stability of hematite based inclusion pigments in Glazes
2014	study on release of nano silicon from porcelain ware surface containing anti stain nano coating
2014-2-15	Synthesis of Zirconia pigment by Microemulsion Method
2015-2-16	Synthesis of Titana Composites by wet chemical for Study anti fouling ceramic coatings

Teaching in the university

Production processes I (raw) Department of Material Engineering, Faculty of Ceramic, University of

material)	Islamic Azad, Saveh, Iran
Physical properties of materials I	Department of Material Engineering, Faculty of Ceramic, University of Islamic Azad, Saveh, Iran
Lab. Production processes III (Furnaces and firing)	Department of Material Engineering, Faculty of Ceramic, University of Islamic Azad, Saveh, Iran
Lab. Technology of glasses I	Department of Material Engineering, Faculty of Ceramic, University of Islamic Azad, Saveh, Iran
Application of the computer in the Material engineering (ICDL, Office, Photoshop and etc.)	Shahid Rajaei Teacher Training University, Tehran, Iran
Simulation and design by computer (Ansys-Thermal, Flow 3D, Solid work and Catia Soft wares)	Shahid Rajaei Teacher Training University, Tehran, Iran
Synthesis routes of Nano-particles	Institute for Color Science and Technology
New trends in ceramic glazes	Institute for Color Science and Technology
Technology of powders	Institute for Color Science and Technology

Research interests

Synthesis of Nano-particles, Sol-Gel Synthesis Nanotechnology Applications, Ceramic Matrix Composites, Ceramics in Environmental Applications, Ceramic Processing, Bio-active Ceramics, Solid State Lighting Ceramics, antibacterial & Self-cleaning surface