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Education

.Ph.D., Organic Chemistry, Helwan University 1990-1994
.M. Sc., , Organic Chemistry Helwan University 1983-1990
.B. Sc., Chemistry, Elmnofia University 1982

Areas of Specialization

- Design and application of industrial dyes.
- Pretreatment of textile fibers.

Academic Jobs

1984- 1990 Demonstrator of Chemistry, Helwan University.
1990- 1994 Teaching Assistant of Chemistry, Helwan University.
1994- 2004 Lecturer of Chemistry, Helwan University.
2004- 2008 Associate Professor of Chemistry, Helwan University.

List of Publications

Dr. Maher Helmy Helal

1-	A Fast Desizing/Scouring/Bleaching System For Cotton-Based Textiles. S.A. Abdel-Hafiz, F.F. Elsis, <u>M. Helmy</u> and A. Hebeish <i>American Dyestuff Reporters</i> , 79, 12 (1990).
2-	Sodium Chlorite/Potassium Chromate Co-oxidant Induced Concurrent Desizing, Scouring and Bleaching of Cotton / Polyester Blend Fabrics. S.A. Abdel-Hafiz, F.F. Elsis, <u>M. Helmy</u> and A. Hebeish <i>American Dyestuff Reporters</i> , 80, 3 (1991).

3-	<p>Concurrent Grafting and Dyeing Using KMnO₄/Citric Acid System Induced Polymerization of Acrylonitrile onto Loomstate Cotton Fabric.</p> <p>S.A. Abdel-Hafiz, F.F. Elsis, M. Helmy and A. Hebeish</p> <p><i>American Dyestuff Reporters, 15, 8 (1994).</i></p>
4-	<p>Potassium Permanganate-Citric Acid System Induced Simultaneous Grafting and Dyeing of Loomstate Cotton Fabric Using Methacrylic Acid and Acid or Basic Dye in This System.</p> <p>S.A. Abdel-Hafiz, F.F. Elsis, M. Helmy and A. Hebeish</p> <p><i>American Dyestuff Reporters, 21, 9 (1994).</i></p>
5-	<p>Concurrent Grafting and Dyeing Using Loomstate Cotton Fabric/Acrylamide /KMnO₄ -Citric Acid/Dye Water System.</p> <p>S.A. Abdel-Hafiz, F.F. Elsis, M. Helmy and A. Hebeish</p> <p><i>American Dyestuff Reporters, 21, 5 (1995).</i></p>
6-	<p>Novel Synthesis of Thiazole Disperse dye Derivatives.</p> <p>Y.M. Elkholy, A.W. Erian and M.H. Helal</p> <p><i>Pigment and Resin Technology, 30(3), 168-170 (2001).</i></p>
7-	<p>A Novel Synthesis of 1-Oxo-thieno[3¹,2¹-3,4]pyrazolo[1,2-a]pyrazole Azo Dye Systems for Dyeing of Synthetic and Modified Cellulose Fibers</p> <p>H.Z. Shams, M.H. Helal, F.A. Mohamed and S.A. Abdel-Hafiz</p> <p><i>Pigment and Resin Technology, 30(3), 158-163 (2001).</i></p>
8-	<p>Synthesis of A New Series of Polyfunctionally-Substituted Pyrazole Azo Dye Systems for Dyeing of Synthetic and Modified Cellulose Fibers.</p> <p>H.Z. Shams, M.H. Helal and F.A. Mohamed</p> <p><i>Pigment and Resin Technology, 30(2), 99-108 (2001).</i></p>
9-	<p>A Novel Synthesis of Polyfunctionally-Substituted Pyrazolo[1,2-a]pyrazole and Thieno[3¹,2¹-3,4]pyrazolo[1,2-a]pyrazole systems).</p> <p>H.Z. Shams, M.H. Helal and F.A. Mohamed</p> <p><i>Phosphorous, Sulphur and Silicon, 174, 255-267 (2001).</i></p>
10-	<p>Synthesis of a New Series of Thiazole and Pyrazole Azo Dye Systems for Dyeing of Synthetic Fibers.</p> <p><u>Maher H. Helal</u></p> <p><i>Pigment and Resin Technology, 30(5) 296-300 (2001).</i></p>
11--	<p>Novel Arylazo Pyrazolo[1,5-a]pyrimidine Derivatives: Synthesis,</p>

	<p>Properties and Dyeing Characteristics. G.H. Elgmeie, M.H. Helal and H.M. Elsayed <i>Pigment and Resin Technology, 33(1), 91-98 (2004).</i></p>
12-	<p>Synthesis of and Dyeing Characteristics of Novel Pyrazolo[1,5-a]pyrimidine Derivatives Containing Two Arylazo Functions. G.H. Elgmeie, M.H. Helal and H.M. Elsayed <i>Pigment and Resin Technology, 32(2), 100-106 (2003).</i></p>
13-	<p>Synthesis of and Dyeing Properties of A New Class of Condensed Carbocyclic Arylazopyrazolo[1,5-a]-Pyrimidines. G.H. Elgmeie, M.H. Helal and Kawther A. Ahmed <i>Pigment and Resin Technology, 32(1), 10-23 (2003).</i></p>
14-	<p>Novel Pyridine-2(1H)-thione and Thieno-[2,3-b]pyridine Derivatives Containing Arylazo Moiety, Synthesis Characteristics and Dyeing properties. Galal H. Elgmeie, Maher H. Helal, Emam M. Abbas and Ebtsam A. Abd-Elmowlla <i>Pigment and Resin Technology, 31(6), 365-374 (2002).</i></p>
15-	<p>Synthesis and Characterization of A New Series of Pyridinone Azo Dyes for Dyeing of Synthetic Fibers. M.H. Helal <i>Pigment and Resin Technology, 33, 165-171 (2004).</i></p>
16-	<p>Synthesis, structure elucidation and biological evaluation of some fused and /or pendent thiophene, pyrazole, imidazole, thiazole, triazole, triazine and coumarin systems based on cyanoacetic 2-[(benzoyl amino)thioxomethyl]hydrazide. H.Z. Shams, R.M. Mohareb, M.H. Helal and A.E. Mhmoud. Accepted for publication in <i>Phosphorous, Sulphur and Silicon (2006).</i></p>
17-	<p>Synthesis and dyeing performance of new disperse azo dyes based on oxo pyridine core. H.Z. Shams, R.M. Mohareb, M.H. Helal and E.M. Samir .Accepted for publication in <i>Pigment and Resin Technology (2006).</i></p>
18	<p><i>Synthesis of a new series of polyfunctionally substituted thiazole azo dye systems for dyeing of synthetic fibers, , M.H. Helal, G.H. Elgmeie and D.a.Msaoud, Accepted for publication in pigment and Resin Technology(2007)</i></p>
19	<p>Novel Benzothiazapine Azo Dyes; Synthesis, Characterization, And Printing Properties G.H. Elgmeie, M.H. Helal and Kawther A. Ahmed, <i>Accepted</i></p>

for publication in pigment and Resin Technology, (2007)