

RESUME

PERSONAL DATA

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EDUCATIONAL DATA

D. Eng. Sci. Henry Krumb School of Mines, Columbia
5/1982 University, New York, U.S.A.
Major: Mineral Processing and Applied
Surface and colloid Chemistry
Minor: Hydrometallurgy and Electrochemistry

M.S. Pennsylvania State University, U.S.A.
11/1977 Major: Mineral Processing
Minor: Particle Technology

B.S. Istanbul Technical University, Istanbul, Turkey
7/1974 Major: General Mining

PROFESSIONAL DATA

6/2010-8/2010 Visiting professor, KFUPM Research Institute
4/2007-3/2010 : Board Chair, Boron Research Institute, Ankara-Turkey
11/2003-11/2006 : Board Member, Boron Research Institute, Ankara-Turkey
4/2007-Present : Vice Chairman, ITU Mineral Processing Dept.
1/2004-10-2004 : Project Consultant, Tübitak MAM
1990-Present Professor, Mineral Processing Department
Istanbul Technical University, Turkey.
6/1995-9/1995 Visiting Professor, University of Utah
6/1997-8/1997 Metallurgical Engineering Dept., USA.
6-1999/9-1999
6-2002/9-2002
9/1997-6/1997 : Board Member, Etimaden, Ankara-Turkey
9/1988-10/1989 Visiting Associate Professor in Mining and Minerals
Engineering Dept., Virginia Polytechnic
Institute and State University, U.S.A.

3/1988-8/1988 Associate Professor in Mining/Petroleum Engineering,
K. F. University of Petroleum & Minerals, Dhahran, S. Arabia.

1/1983-3/1988 Assistant Professor, K. F. University of Petroleum & Minerals.
6/1984-9/1984 Visiting Research Scientist, Virginia Polytechnic
7/2002-8/2002 Institute And State University.
1978-1982 Graduate Research Assistant, Henry Krumb
School of Mines, Columbia University.

PROFESSIONAL ACTIVITIES

Awards and Scholarships

2005	TÜBİTAK/MAM achievement Award
2002	NATO-B2 Scholarship
1995	NATO-B2 Scholarship
1994	TÜBİTAK Junior Researcher Award
1987-1988	KFUPM Long Service Award.
1986-1987	Recipient of the Best Researcher award in the College of Engineering of KFUPM.
1985-1986	Recipient of the Best Researcher award in the College of Engineering of KFUPM.
1984-1985	Nominated for the Best Researcher Award in KFUPM.
1981-1982	Campbell Fellowship awarded by Henry Krumb School of Mines, Columbia University.
1979-1981	Research assistantship awarded by Henry Krumb School of Mines, Columbia University.
1975-1979	Winner of nationwide Turkish Department of Education scholarship to study M.S. and Ph.D. abroad.
1971-1974	Merit scholarship to study B. S., awarded by Etibank, the largest state owned mining and metallurgical company of Turkey.
1964-1970	Recipient of several merit awards.

PROFESSIONAL AFFILIATIONS

- * Member of the Society of Mining Engineers of AIME.
- * Associate Member of the Society of Petroleum Engineers of AIME.

PUBLICATIONS

I. REFEREED PUBLICATIONS

1. Çelik, M. S. and Somasundaran P., "Effect of pretreatments on Flotation and Electrokinetic Properties of Coal", Colloids and Surfaces, 1, 121-124(1980).
2. Austin L. G., Bagga, P., and Çelik, M. S., "Breakage Properties of Some Materials in Laboratory Ball Mills", Powder Technology, 28, 235-243(1981).
3. Çelik M. S., Manev, E. and Somasundaran, P., "Sulfonate Precipitation-Redissolution-Reprecipitation in Inorganic Electrolytes," AIChE Symposium Series on Interfacial Phenomena In Enhanced Oil Recovery, Vol. 212, No.78, 86-96(1982).
4. Çelik, M. S., Goyal, A., Manev, E. D., and Somasundaran, P., "The Role of Surfactant Precipitation and Redissolution in the Adsorption of Sulfonates on Minerals", Soc. Pet. Eng. J., 233-239(April 1984).
5. Somasundaran, P. Ananthapadmanabhan, K., Çelik, M. S., and Manev, E. D., "A Thermodynamic Model of Redissolution of Calcium Sulfonate Precipitates in NaCl Solutions", Soc. Pet. Eng. J., 667-676(Dec. 1984).
6. Çelik, M. S. and Somasundaran, P., "Chemical Interactions in Surfactant/Polymer Flooding Systems", Arabian J. for Science and Engineering, 11, 51-61(1986).
7. Çelik, M. S. "Polymer/Surfactant Interactions in the Presence of Inorganic Electrolytes", J. Coll. Sci. King Saud Univ., 17, 211-221(1986).
8. Çelik, M. S., "Temperature Dependence of Precipitate Redissolution by Micelles: A Calcium Adsorption Model", Thermochimica Acta, 99, 1-9(1986).

9. Çelik, M. S. and Somasundaran, P., "The Effect of Multivalent Ions on the Flotation of Coal", *Separation Science and Technology*, 21, 393-402(1986).
10. Çelik, M. S., and Somasundaran, P. "Molecular Mechanism of Calcium Sulfonate Redissolution By Micelles", *J. Chemical and Biochemical Technology*, 40, 151-166(1987).
11. Çelik, M. S., "Acceleration of Breakage Rates of Anthracite During Grinding in a Ball Mill", *Powder Technology*, 54, 227-233(1988).
12. Çelik, M. S., "Comparison of Dry and Wet Grinding of Coals in a Ball Mill", *Powder Technology*, 55, 1-9(1988).
13. Çelik, M. S. and Somasundaran P., "Effect of Chain Length on Dissolution of Calcium Sulfonate Precipitates", *J. Colloid and Interface Sci.*, 122, 163-170(1988).
14. Çelik, M. S. and Fuseni, A. B., "Existence of the Secondary Optimal Salinity", *J. Colloid and Interface Sci.*, 123, 312-315(1988).
15. Somasundaran, P., Ananthapadmanabhan, K. P. and Çelik, M. S., "Precipitation-Redissolution Phenomena in Sulfonate- $AlCl_3$ System", *Langmuir*, 4, 1061-1063(1988).
16. Al-Hashim, H. S., Çelik, M. S., Oskay, M. M., and Al-Yousef, H. Y., "Adsorption and Precipitation Behavior of Petroleum Sulfonates from Saudi Arabian Limestone," *Petroleum Science and Engineering*, 1, 335-344(1988).
17. Çelik, M. S., Shakeel, A., Al-Yousef, H. Y., and Al-Hashim, H. S., "Adsorption of Ethoxylated Sulfonates on Limestone," *Adsorption Science and Technology*, 5, 29-45(1988).
18. Çelik, M. S. and Oskay, M. M., "Chemical Loss mechanisms in Micellar/Polymer Flooding Systems" *Petrol*, 15-28, April 1988(in Turkish).
19. Çelik, M. S., "Adsorption of Ethoxylated Sulfonate and Nonionic Homologs on Coal", *J. Colloid and Interface Sci.*, 129, 428-440(1989).
20. Çelik, M. S., "Effect of Ultrasonic Treatment on the Flotation of Coal and Galena", *Separation Sci. and Technology*, 24, 1159-1166(1989).
21. Çelik, M. S., "Beneficiation Studies on Zarghat Magnesite Ore", *Arabian J. For Sci. and Engineering*, 15, 213-218 (1990).
22. Çelik, M.S., Ahmad, S. and Al-Hashim, H.S., "Adsorption/Desorption of Polymers From Saudi Arabian Limestone", *J. Petroleum Science and Engineering*, 6, 213-223(1991).
23. Çelik, M.S. and Yoon, R. H., "Adsorption of Poly-oxyethylene Nonylphenol Homologues on a Low-Ash Coal", *Langmuir*, 7, 1770-1774(1991).
24. Hancer, M. and Çelik, M.S., "Flotation Mechanisms of Boron Minerals", *Separation Science and Technology*, 28, 1703-1714(1993).
25. Çelik, M.S., Atak, S., and Onal, G., "Flotation of Boron Minerals", *Minerals and Metallurgical Processing*, 10, 149-153(1993).
26. Emrullahoglu, O.F., Kara, M., Tolun, R. and Çelik, M.S., "Beneficiation of Calcined Colemanite Tailings, *Powder Technology*, 77, 215-216(1993).
27. Atesok, G., Yildirim, I. and Çelik, M.S., "Applicability of the Reichert Spiral for Cleaning Bituminous and Lignitic Coals: A Pilot Scale Study", *International J. Mineral Processing*, 40, 33-44(1993).
28. Çelik, M.S., Uzunoglu, A., and Arslan, F., "Decrepiation Properties of Some Boron Minerals", *Powder Technology*, 79, 167-172(1994).
29. Çelik, M.S., and Hancer, M., "Reply to Discussion on Flotation of Boron Minerals", *Minerals and Metallurgical Processing*, 11, 123-124(1994).
30. Yildirim, I., Atesok, G., Onal, G. and Çelik, M.S., "Cleaning of Coals in a Stripa Heavy Medium Separator": Effect of Particle Size, *Coal Preparation*, 15, 195-206(1995).
31. Çelik, M.S., "A Method to Isolate Precipitation from Adsorption in Surfactant/Solid Systems", *Adsorption Science and Technology*, 12, 19-25(1995).
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33. Çelik, M.S. and Suner, F. "A Thermodynamic Analysis of Decrepiation of Boron Minerals" *Thermochimica Acta*, 245, 176-174(1995).
34. Çelik, M.S. and Yasar, E., "Effect of Temperature on Electrostatic Separation of Boron Minerals", *Minerals Engineering*, 8, 829-833(1995).
35. Çelik, M.S. and Seyhan K., "Effect of Heat Treatment on the Flotation of Turkish Lignites," *Coal Preparation*, 16, 65-79(1995).
36. Çelik, M.S. and Bulut, R., "Mechanism of Selective Flotation of Sodium-Calcium Borates with Anionic and Cationic Collectors" *Separation Science and Technology*, 31, 1817-1829(1996).

37. Çelik, M.S., Yasar, E. and El-Shall, H., "Flotation of Heterocoagulated Particulates in Ulexite/SDS/Electrolyte System", *J. Colloid and Interface Science*, 203, 254-259(1998).
38. Batar, T., Kahraman, B., Cirit, E., Çelik, M.S., "Dry Processing of Borax by Calcination as an Alternative to Wet Methods", *International J. of Mineral Processing*, 54, 99-110(1998).
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40. Çelik, M.S. Can, İ., Eren, R.H., "Removal of Titanium Impurities from Feldspar Ores by New Flotation Collectors, *Minerals Engineering*, 11, 1209-1218(1998).
41. Ateşok G., Perek K.T., Dinçer H., Çelik M.S., 'Reduction of Ash and Sulfur Contents of Low-Rank Turkish Semicoked Lignite by High Intensity Dry Magnetic Separation' *Coal Preparation* 20,179-190(1999).
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44. Atesok, G., Çelik, M.S., 'A New Flotation Scheme for a Difficult-to-float Coal using Pitch Additive in Dry Grinding', *Fuel*, 79, 1509-1513(2000).
45. Çelik, M.S., Yildirim, I., A New Physical Process for Desulfurization of Low-Rank Coals, *Fuel*, 79, 1665-1669(2000).
46. Çelik, M.S., Özdemir, B., Turan, M., Koyuncu, İ., Ateşok, G., 'Removal of Ammonia by natural Clay Minerals using Fixed and Fluidised Bed Column Reactors', *Water Science and Technology: Water Supply* 1, 81-88(2001).
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51. Demir, C., Abramov, A.A. and Çelik, M.S., 'Flotation Separation of Na-Feldspar From K-Feldspar by Monovalent Salts' *Minerals Engineering*, 14, 733-740 (2001).
52. Özdemir, O., Çelik, M.S., Characterization and Recovery of Lignitic Flyash By-Products from the Tunçbilek Power Station, *Canadian Metallurgical Quarterly*, 41, 143-150 (2002).
53. Sabah, E. and Çelik, M.S., 'Adsorption Mechanism of Quaternary Amines by Sepiolite' *Separation Science and Technology*, 37, 3081-3097 (2002).
54. Sabah, E., Turan, M., Çelik, M.S., Adsorption mechanism of cationic surfactants onto acid and heat activated sepiolites, *Water Research*, 36, 3957-3964, 2002.
55. Sabah, E., Çelik, M.S., Interaction of Pyridine Derivatives with Sepiolite, *J. Colloid Interface Sci.*, 251, 33-38 (2002).
56. Ersoy, B., Çelik, M.S., Electrokinetic Properties of Clinoptilolite, Microporous and Meso Porous materials, 55, 305-312(2002).
57. Turan, M. Çelik, M.S. Regenerability of Turkish Clinoptilolite for use in Ammonia Removal from Drinking Water, *J. of Water Supply: Research and Technology-AQUA*, In Press, 2002.
58. Celik, M.S., Hancer, M., Miller, J.D., Flotation Chemistry of Boron Minerals, *J. Colloid Interface Sci.*, In Press, 256, 2002.
59. Çelik, M.S., Dry Cleaning of Low-Rank Coals by Low Temperature Carbonization and Magnetic Separation, *Coal Preparation*, 22, 311-322 (2002).
60. Sabah, E., Mart, U., Çelik, M.S., The share of coal in Turkey' primary enery consumption between 1970 and 2000 (In Turkish), *Madencilik*, 41, 31-42 (2002).
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62. Turan, M. Çelik, M.S. Regenerability of Turkish Clinoptilolite for use in Ammonia Removal from Drinking Water, *J. of Water Supply: Research and Technology-AQUA*, 52, 59-66 (2003).
63. Ersoy, B., Çelik, M.S., Effect of hydrocarbon chainlength on adsorption of cationic surfactants onto clinoptilolite, *Clays and Clay Minerals*, 51, 173-181 (2003).

64. Özcan, Ö., Çelik, M.S., Zhorro, N, Miller, J.D., Effect of thermal stability on the flotation response of sodium carbonate salts, *Minerals Engineering*, 16, 353-358 (2003).
65. Demir, C., Bentli, I., Gülgönül, İ., Çelik, M.S., Effects of Bivalent Salts on the Flotation Separation of Na-Feldspar From K-Feldspar, *Minerals Engineering*, 16, 551-554 (2003).
66. Armağan, B., Özdemir, O., Turan, M., Çelik, M.S., Adsorption of Negatively-Charged Azo Dyes onto Surfactant-Modified Sepiolite, *J. Environmental engineering-ASCE*, 129, 709-715 (2003).
67. Turan, M., Sabah, E., Gulsen, H., Çelik, M.S., Influence of Media Characteristics on Energy Dissipation in Filter Backwashing *ACS Environmental Science and Technology*, 37, 4288-4292 (2003).
68. Armağan, B., Özdemir, O., Turan, M., Çelik, M.S. Clay Mineral Batch Process for Color Removal of Textile Wastewaters" *Journal of Environmental Science and Health A*, 38, 2251-2258(2003).
69. Demir, C., Gülgönül, İ., Çelik, M.S., Differential separation of albite from microcline by monovalent salts in HF medium, *Minerals and Metallurgical Processing*, 20, 120-124 (2003).
70. Özdemir, O., Armağan, B., Turan, M., Çelik, M.S., Comparison of the Adsorption Characteristics of azo-reactive dyes on mesoporous minerals, *Dyes and Pigments*, 62, 49-60 (2004).
71. Armağan, B., Turan, M., Özdemir, O., Çelik, M.S. Color Removal of Reactive Dyes from water by Clinoptilolite" *Journal of Environmental Science and Health A*, 39, 1251-1261(2004).
72. Ersoy, B., Çelik, M.S., Uptake of Aniline and Nitrobenzene From Aqueous Solution by Organo-Zeolite, *Environmental Technology*, 25, 341-348 (2004).
73. Kavas, T., Sabah, E., Çelik, M.S., Structural Properties of Sepiolite-Reinforced Cement Composite, *Cement and Concrete Research*, 34, 2135-2139 (2004).
74. Demir, C. Karagüzel, C., Gülgönül I. and M.S. Çelik, Selective Separation of Sodium and Potassium Feldspar Minerals From Orebodies, *Key Engineering materials*, 264-268, 1435-1438(2004).
75. Sabah, E., Yüzer, H. and Çelik, M.S., Characterization and Dewatering of Fine Coal Tailings by Dual-Flocculant systems, *International J. Mineral Processing*, 74, 303-315 (2004).
76. Turan M, Armağan B, Özdemir O, Çelik, M.S. J. Mesoporous mineral columns for color removal from aqueous solutions, *Environmental Sci. and Health Part A-Toxic/Hazardous Substances & Environmental Eng.* 39, 2221-2228 (2004).
77. Benkli, Y. E., Can, M. F., Turan, M., Çelik, M. S., "Modification of organo-zeolite surface for the removal of reactive azo dyes in fixed-bed reactors", *Water Research* 39 (2-3): 487-493(2005).
78. Turan, M., Gülşen, H., Çelik, M. S., "Treatment of landfill leachate by a combined anaerobic fluidized bed and zeolite column system", *Journal of Environmental Engineering-ASCE* 131 (5): 815-819 (2005).
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80. Turan, M., Mart, U., Yüksel, B., Çelik, M.S., Lead removal, in fixed-bed columns by zeolite and sepiolite, *Chemosphere*, 60, 1487-1492(2005).
81. Sabah, E., Çelik, M.S., Sepiolite: An Effective Bleaching Adsorbent for the Physical Refining of Degummed Rapeseed Oil, *J. American Oil Chemical Society (JAOCS)*, 82, 911-916 (2005).
82. Karagüzel C, Gülgönül İ, Demir C, Çınar, M., Çelik, M.S., Concentration of K-feldspar from a pegmatitic feldspar ore by flotation, *International J Mineral Processing*, 81, 122-132 (2006).
83. Uyanık N, Erdem A.R., Can M.F., Çelik, M.S., Epoxy nanocomposites curing by microwaves *Polymer Eng. Sci.*, 46 (8): 1104-1110 (2006).
84. Sabah E, Çınar M, Çelik M.S., Decolorization of vegetable oils: Adsorption mechanism of beta-carotene on acid-activated sepiolite, *Food Chemistry*, 100, 1661-1668(2007).
85. Sabah E, Mart, U., Çınar M, Çelik M.S., Zeta potentials of sepiolite suspensions in concentrated monovalent electrolytes, *Separation Science and Technology*, 42, 1-14 (2007).
86. Yüzer, H., Kara, M., Sabah, E., Çelik, M.S., Contribution of cobalt ion precipitation to adsorption in ion exchange dominant systems, *J. Hazardous Materials*, 151, 33-37 (2008).
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88. Çınar, M., Sabah, E., Çelik, M.S., Rheological properties of sepiolite ground in acid and alkaline media, *Applied Clay Sci.*, 42(3-4), 422-426 (2009).

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91. Can, M.F., Çınar, M., Benli, B., Özdemir, O., Çelik, M.S., Determining the fiber size of nano structured sepiolite using Atomic Force Microscopy (AFM), *Applied Clay Science*, 47, 217-222(2010).
92. Kurama, H., Karagüzel, C., Mergan, T., Çelik, M.S., Ammonium removal from aqueous solutions by dissolved air flotation, *Desalination*, 253, 147-152 (2010).
93. Çetinel, T., Karagüzel, C., Boylu, F., Çelik, M.S., Activation of (Na, Ca)-bentonites with soda and MgO and their utilization as drilling mud, *Applied Clay Sci.*, 48(3), 398-404(2010)
94. Boylu, F., Cinku, K., Esenli, F., Celik, M.S., The separation efficiency of Na-bentonite by hydrocyclone and characterization of hydrocyclone products, *Int. J. Mineral Processing*, 94(3-4), 196-202(2010).
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96. Sevim, A.M., Hojiyev, R., Gül, A., Çelik, M.S., An investigation of the kinetics and thermodynamics of the adsorption of a cationic cobalt porphyrine onto sepiolite, *Dyes and Pigments*, 88, 25-38 (2011).
97. Benli B, Nalaskowski J, Assemi S, Celik MS, Miller JD, Evaluation of Adhesion Forces in Alginate-Filler System Using an AFM Colloidal Probe Technique, *Adhesion Sci. Tech.*, 25(11) 1159-1173 (2011).
98. Özdemir, O., Hao Du, Karakashev, S.I., Nguyen, A.V., Çelik, M.S., Miller, J.D., Understanding the role of ion interactions in soluble salt flotation with alkylammonium and alkylsulfate collectors, *Advances in Colloid and Interface Science*, 163, 1-22 (2011).
99. Özdemir, O. Gupta, V. Miller, J.D., Cınar, M., Çelik, M.S., Production of trona concentrates using high-intensity dry magnetic separation followed by flotation, *Minerals & Metallurgical Proc.*, 28 (2), 55-61(2011).
100. Çınar, M., Ersever, G., Şahbaz, O., Çelik, M.S. Çelik, Sepiolite/calcium interactions in desiccant clay production, *Applied Clay Science* 53, 386-394 (2011).
101. Sevim, A.M., Hojiyev, R., Gül, A., Çelik, M.S., Preparation of novel heterogeneous catalysts by adsorption of a cationic tetrapyrrole on to bentonite: equilibrium, kinetics, and thermodynamics, *Monatsh Chem*, 88, 25-38 (2011).

II. PAPERS PUBLISHED IN BOOKS AND ENCYCLOPEDIAS

1. Somasundaran, P., Çelik, M. S. and Goyal, A., "Precipitation and Redissolution of Sulfonates and Their Role in Adsorption on Minerals", in 'Surface Phenomena In Enhanced Oil Recovery', Ed., D. O. Shah, Plenum Co., 641-647(1981).
2. Çelik, M.S., Yildirim, I., Ozcan, O., Onal, G., and Dogan, M.Z., "Flotation of Fluorite Ores Using Oleoyl Sarcosine as Collector", in *Beneficiation of Phosphates: Theory and Practice*, Eds., H. El-Shall, B.M. Moudgil, R. Wiegel, SME Publication, Ch.2, 11-18(1993).
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4. Abramov, A.A., Abramov, Al. Al., Onal, G., Atak, S., Çelik, M.S., "Mechanism of reverse Flotation of Calciferous Phosphate Ores", in *Beneficiation of Phosphates: Theory and Practice*, Eds., H. El-Shall, B.M. Moudgil, R. Wiegel, SME Publication, Ch. 29, 281-288(1993).
5. Onal, G., Çelik, M.S., and Honaker, R., "Coal Preparation", in *Coal: Resources, Properties, Utilization, Pollution*, Ed. Orhan Kural, Kurtis press, Ch. 17, 223-238(1994).
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