

PROF. DR. MEHMET POLAT

IZMIR INSTITUTE OF TECHNOLOGY
FACULTY, CHEMICAL ENGINEERING DEPARTMENT
DIRECTOR, INTEGRATED RESEARCH CENTERS
GULBAHCE, URLA, IZMIR

Contact Information

Address	IZMIR INSTITUTE OF TECHNOLOGY INTEGRATED RESEARCH CENTERS BUILDING Gulbahce, Urla, IZMIR
Telefon (İş)	+90 (232) 750 7900/7901
e-posta	mehmetpolat@iyte.edu.tr
Web site	https://che.iyte.edu.tr/en/faculty-members/

Education

Ph.D.	THE PENNSYLVANIA STATE UNIVERSITY, USA MINERAL PROCESS ENGINEERING
MS	THE PENNSYLVANIA STATE UNIVERSITY, USA MINERAL PROCESS ENGINEERING
MS	DOKUZ EYLUL UNIVERSITY, TURKEY MINERAL PROCESS ENGINEERING
BSc	DOKUZ EYLUL UNIVERSITY, TURKEY MINING ENGINEERING

Languages

TURKIS (MOTHER TONGUE) ENGLISH (FLUENT)

Fields of Expertise

MINERAL PREPARATION/ PROCESSING, NANO-MICRO PARTICLE SYNTHESIS AND CHARACTERIZATION, HYDROMETALLURGY AND LEACH PROCESSES, SOLID-LIQUID WASTE TREATMENT, SURFACE AND COLLOID CHEMISTRY

Academic Positions

PROFESSOR	IZMIR INSTITUTE OF TECHNOLOGY, TURKEY CHEMICAL ENGINEERING DEPARTMENT
INVITED PROFESSOR	ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY, JAPAN AIST ADVANCED CERAMICS DIVISION
ASSOCIATE PROFESSOR	IZMIR INSTITUTE OF TECHNOLOGY, TURKEY CHEMICAL ENGINEERING DEPARTMENT
INVITED RESEARCHER	BEN GURION UNIVERSITY, ISRAEL DEPARTMENT OF CHEMISTRY
ASSISTANT PROFESSOR	DOKUZ EYLÜL UNIVERSITY, TURKEY MINERAL PROCESS ENGINEERING DEPARTMENT
RESEARCH ASSISTANT	PENNSYLVANIA STATE UNIVERSITY, USA MINERAL PROCESS ENGINEERING DEPARTMENT

Management Responsibilities

DEAN, THE GRADUATE SCHOOL	IZMIR INSTITUTE OF TECHNOLOGY
DEAN, THE ENGINEERING FACULTY	IZMIR INSTITUTE OF TECHNOLOGY
DEPARTMENT HEAD, CHEMICAL ENGINEERING DEPARTMENT	IZMIR INSTITUTE OF TECHNOLOGY
DIRECTOR, THE INTEGRATED RESEARCH CENTERS (CURRENT)	IZMIR INSTITUTE OF TECHNOLOGY

Prizes Won

MEHMET KEMAL DEDEMAN RESEARCH PRIZE, 2nd PLACE MEHMET KEMAL DEDEMAN VAKFI
MINERAL PROCESSING SCIENCE AWARD FOUNDATION FOR THE DEVELOPMENT OF TURKISH MINING
GRADUATE SCHOOL RESEARCH COMPETITION, 2nd PLACE COLLEGE OF EARTH AND MINERAL SCIENCES, USA
MS AND PHD SCHOLARSHIP IN USA MINISTRY OF EDUCATION
OUTSTANDING STUDENT SCHOLARSHIP TURKISH EDUCATION FOUNDATION (TEV)

Thesis Completed

PhD

NAME	TITLE	YEAR
HALUK ÇELİK	İnce kömürlerin temizlenmesinde köpük flotasyonu ve ağır ortam siklonlarının entegrasyonu	2002
AYLİN ŞAKAR DELİORMANLI	Effect of Colloidal Interactions In The Forming of Lead Magnesium Niobate Ceramics	2007
BERNA ÜZELYALÇIN	Fixation and stabilization of heavy metals in a product composed of fly ash and industrial acidic wastes	2010
GÜLNİHAL ÖZEK YELKEN	Estimation of the surface charge distribution of solids in liquids by using atomic force microscopy	2011
SUNA SOP	An in-depth study of nucleation and growth processes during Stöber silica synthesis	2019
AYBİKE NİL OLCA Y KURT	Development of chitosan based biofoams	2020

MASTERS

NAME	TITLE	YEAR
GÜL AKAR	Termik Santral Kül Barajları ve Çevresi için Ağır Metal Kirlilik Haritasının Hazırlanması	2002
ÇAĞRI SİRETLİ	Synthesis of silica nano particles with custom-made morphology for controlled drugdelivery	2012
AYŞE GÜREL	Determining charge distribution of metal oxide surfaces with afm using colloid probe technique	2012
MUHAMMET BURAK KAMA	Modification of chemical and morphological properties of lead-acid battery negative active material	2014
AYBİKE NİL OLCA Y KURT	An investigation of dye-surfactant interactions in aqueous solutions for elucidating the mechanisms of ultrafiltration	2014
ESİN GÖKMEN	Synthesis and characterization of boron composite nanoparticles for wear and friction reduction	2019

Projects Completed

RESPONSIBILITY	TITLE	YEAR
PROJECT MANAGER	METAL OKSİT YÜZELERİNİN ÇÖZELTİLERDEKİ YÜK DAĞILIMININ ATOMİK KUVVET MİKROSKOBU İLE BELİRLENMESİ	TÜBİTAK 01.04.2010-31.03.2012
RESEARCHER	KİTOSAN BAZLI BİYO-UYUMLU EMÜLGATÖR ÜRETİMİ , KARAKTERİZASYONU VE YAĞ DİSPERSİYON KİNETİĞİNE OLAN ETKİSİNİN İNCELENMESİ	TÜBİTAK 01.03.2006-01.03.2008
PROJECT MANAGER	MİKROHİOBRİT ARAÇLAR İÇİN KURŞUN-ASİT AKU NEGATİF AKTİF MALZEMESİNİN GELİŞTİRİLMESİ	SAN-TEZ 01.03.2012-01.03.2014
PROJECT MANAGER	ESTIMATION OF THE SURFACE CHARGE DISTRIBUTION OF SOLIDS IN LIQUIDS BY USING ATOMIC FORCE MICROSCOPY	TÜBİTAK 01.03.2008-01.03.2010

1. PRINTED FULL ARTICLES IN JOURNALS IN SCIENCE CITATION INDEX

1. H. Polat, G. Kutluay, M. Polat, Analysis of dilution induced disintegration of micellar drug carriers in the presence of inter and intra micellar species, COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS 2020, 601, 20 September 2020 .
2. U. Horasan, M. Tanriverdi, T. Cicek and M. Polat, Investigating the effects of ultrasonic energy on the flotation behavior of pyrite and galena minerals, PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, 2020, 56(3),538-547.
3. E. Cihan, M. Polat, H. Polat, Designing of spherical chitosan nano-shells with micellar cores for solvation and safeguarded delivery of strongly lipophilic drugs, COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 529, 20 2017, 815-823
4. M. Polat, H. Polat, A.N. Olcay, Ancillary effects of surfactants on filtration of low molecular weight contaminants through cellulose nitrate membrane filters, COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 2016, 492, 199-206.
5. M. Polat, U. Green, G. Segev, H. Cohen, Y. Mastai, R. Lieberman, Coal fly ash as a potential fixation reagent for radioactive wastes, FUEL, 2015, 153, 437-444.
6. G. Yelken-Ozek, M. Polat, Determination of electrostatic potential distribution by Atomic Force Microscopy (AFM) on model silica and alumina surfaces in aqueous electrolyte solutions, APPLIED SURFACE SCIENCE, 2014, 301, 149-155.
7. G. Akar, M. Polat, G. Galecki, U. Ipekoglu, Leaching behavior of selected trace elements in coal fly ash samples from Yenikoy coal-fired power plants, Fuel Processing Technology, 2012, 104, 50-56
8. K. Koseoglu, M. Polat, H. Polat, Encapsulating fly ash and acidic process waste water in brick structure, JOURNAL OF HAZARDOUS MATERIALS, 2010, 176, 1-3, 957-964.
9. M. Polat, H. Polat, "Analytical Solution of Poisson-Boltzmann Equation for Interacting Plates of Arbitrary Potential and Same Sign", JOURNAL OF COLLOID AND INTERFACE SCIENCE, 2010, 341, 178-185.
10. M. Kes, H. Polat, S. Keleşoğlu, M. Polat and G. Aksoy, Determination of the particle interactions, rheology and the surface roughness relationship for dental restorative ceramics, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 29(14), 2959-2967, 2009.
11. A. Şakar-Deliormanli, E. Çelik, M. Polat, Influence of Dispersing Agents on the Solubility of Perovskites in Water, JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, 30(5),704-711, 2009.
12. A. Şakar-Deliormanli, E. Çelik, M. Polat, Preparation of the $Pb(Mg_{1/3}Nb_{2/3})O_3$ films by aqueous tape casting, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 29(1), 115-123, 2009.
13. A. Şakar-Deliormanli, E. Çelik, M. Polat, Solubility and aging of lead magnesium niobate in water, CERAMICS INTERNATIONAL, 35(1), 503-508, 2009.
14. A. Şakar-Deliormanli, E. Çelik, M. Polat, Rheological behavior of PMN gels for solid freeform fabrication, COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 324(1-3), 159-166, 2008.
15. A. Şakar-Deliormanli, E. Çelik, M. Polat, Thermal analysis and microstructural characterization of ceramic green tapes prepared by aqueous tape casting, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 94(3), 663-667, 2008.
16. A. Şakar-Deliormanli, E. Çelik, M. Polat, Phase Formation and Microstructure of Nd^{+3} doped $Pb(Mg_{1/3}Nb_{2/3})O_3$ Prepared by Sol-gel Method, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 19(6), 577, 2008.
17. A. Şakar-Deliormanli, E. Çelik, M. Polat, Adsorption of Anionic Polyelectrolyte and Comb Polymers onto Lead Magnesium Niobate, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 316(1-3), 202-209, 2008.
18. A. Şakar-Deliormanli, E. Çelik, M. Polat, The Isoelectric Point of Lead Magnesium Niobate, JOURNAL OF THE AMERICAN CERAMIC SOCIETY, 90(10), 3314-3317, 2007.
19. M. Polat, E. Güler, E. Lederman and H. Cohen, Neutralization of Extremely Acidic Sludge and Stabilization of Heavy Metals in the Aggregate Structure, WASTE MANAGEMENT, 27, 482 - 489, 2007.
20. M. Polat, K. Sato, T. Nagaoka and K. Watari, Effect of Hydration on the Normal and Lateral Interaction Forces between α -Alumina Surfaces, ADVANCES IN TECHNOLOGY OF MATERIALS AND MATERIAL PROPERTIES JOURNAL, 9,(1), 35-40, 2007.
21. G. Aksoy, H. Polat, G. Coskun and M. Polat, Effect of Various Treatment and Glazing (Coating) Techniques on the Roughness and Wettability of Ceramic Dental Restorative Surfaces, COLLOIDS AND SURFACES B: BIOINTERFACES, 53(2), 254-259, 2006.

22. M. Polat , K. Sato, T. Nagaoka and K. Watari, Effect of pH and Hydration on the Normal and Lateral Interaction Forces between Alumina Surfaces, *JOURNAL OF COLLOIDS AND INTERFACE SCIENCE*, 304(2), 378-387, 2006.
23. Polat, M. Molva and M. Polat, Capacity and Mechanism of Phenol Adsorption on Lignite, *INTERNATIONAL JOURNAL OF MINERAL PROCESSING*, 79(4), 264-273, 2006.
24. M. Polat, Kinetic Estimation of the Adsorbate Distribution on the Surface from Adsorbed Amounts, *JOURNAL OF COLLOIDS AND INTERFACE SCIENCE*, 298(2), 593-601, 2006.
25. H. Çelik and M. Polat, Integrating Flotation to Improve the Performance of an HMC Circuit Treating a Low Rank Fine Coal, *MINERALS AND METALLURGICAL PROCESSING JOURNAL* , 22(4), 219-224, 2005.
26. H. Polat, A. Vengosh, I. Pankratov and M. Polat, A New Methodology for Removal of Boron from Water by Coal and Fly Ash, *DESALINATION*, 164, 173-188, 2004.
27. M. Polat, H. Polat and S. Chander, Physical and Chemical Interactions in Coal Flotation, *INTERNATIONAL JOURNAL OF MINERAL PROCESSING*, 72, 199-213, 2003.
28. T. Onargan, K. Kucuk and M. Polat, An Investigation of the Existence of Methane and Other Gases In Uzundere-Izmir Solid Waste Disposal Site , Izmir-Turkey, *WASTE MANAGEMENT*, 23(8), 741-747, 2003.
29. M. Polat, E. Güler, G. Akar, H. Mordogan, Ü. Ipekoglu and H. Cohen, Neutralization of Acid Mine Drainage by Turkish Lignitic Fly Ashes; Role of Organic Additives in the Fixation of Toxic Elements, *JOURNAL CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*, 77, 372, 2002.
30. M. Polat, E. Lederman, I. Pelly and H. Cohen, Chemical Neutralization of Acidic Wastes Using Fly Ash in Israel, *JOURNAL CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*, 77, 377, 2002.
31. M. Polat , H. Polat, S. Chander and R. Hogg, Characterization of Airborne Particles and Droplets: Relation to Amount of Airborne Dust and Dust Collection Efficiency, *PARTICLE AND PARTICLE SYSTEMS CHARACTERIZATION*, 18, pp. 1-9, 2001.
32. M. Polat and S. Chander, First-Order Flotation Kinetics Models and Methods For Estimation of the True Distribution of Flotation Rate Constants, *INTERNATIONAL JOURNAL OF MINERAL PROCESSING*, 58, No. 1-4, 145, 2000.
33. M. Polat , H. Polat and S. Chander, Electrostatic Charge on Spray Droplets of Aqueous Spray Droplets, *JOURNAL OF AEROSOL SCIENCE*, 31, No. 5, 551, 2000.
34. M. Polat and H. Polat, A Review of the Theory of Interactions between Particles Dispersed in Aqueous Media, II. Van der Waals Interactions, *JOURNAL OF ORE DRESSING*, No. 3, p. 21, 2000.
35. H. Polat, M. Polat and S. Chander, Kinetics of Dispersion of Oil in the Absence and Presence of Block Co-polymers, *JOURNAL OF AICHE*, 45, 1866, 1999.
36. H. Polat, M. Polat , S. Chander and R. Hogg, The Electrostatic Charge on Particles and Its Relation to Agglomeration in Air, *JOURNAL OF APPLIED OCCUPATIONAL AND ENVIRONMENTAL HYGIENE*, 11, No. 2, 817, 1996.
37. M. Polat , F.G. Miller and S. Chander, An Integrated Heavy Media Cyclone-Flotation System for Coal Cleaning, *MINERALS AND METALLURGICAL PROCESSING JOURNAL*, Nov. 1993, 206, 1993.

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2. PRINTED FULL ARTICLES IN BOOKS OR SECTIONS IN BOOKS

38. M. Polat, H. Polat, Recent Advances of Chitosan-Based Systems for Delivery of Anticancer Drugs, Chapter 7 in the book 'Functional Chitosan: Drug Delivery And Biomedical Applications', Springer Nature , S. Jana, S. Jana, ISBN 978-981-15-0262-0 /ISBN 978-981-15-0263-7 (eBook); <https://doi.org/10.1007/978-981-15-0263-7>.
39. G. Yelken, M. Polat, M. Tanoglu, Editors, The Proceedings of the 4th International Porous and Powder Materials Symposium and Exhibition, ISBN 978-975-6590-12-6, 9-11 October 2019, Marmaris Aydin Turkey.
40. O.C. Duvarci, M. Polat, M. Tanoglu, Editors, The Proceedings of the 3rd International Porous and Powder Materials Symposium and Exhibition, 978-975-6590-09-6, 12-15 September 2017, Kusadasi Aydin Turkey.

41. S.K. Ozdemir, M.Polat, M. Tanoglu, Editors, The Proceedings of the 2nd International Porous and Powder Materials Symposium and Exhibition, ISBN: 978-975-6590-07-2, 15-18 September 2015, Cesme Izmir Turkey.
42. S.K. Ozdemir, M.Polat, M. Tanoglu, Editors, The Proceedings of the 1st International Porous and Powder Materials Symposium and Exhibition, ISBN: 978-975-6590-05-8, 3-6 September 2013, Cesme Izmir Turkey.
43. M. Polat , K. Sato, T. Nagaoka and K. Watari, Effect of pH on Normal and Lateral Forces between a - Alumina Surfaces as Measured by AFM-Colloid Probe Method, in Smart Processing Technology, Ed. N. Abe and T. Tsukamoto, High Temperature Society of Japan, 171-174, 2006.
44. A. Akar, Ü. Ipekoglu, I. Cöcen and M. Polat (Editors), Proceedings Book of the 10th International Mineral processing Symposium, Cesme-Izmir , Turkey , October 2004 .
45. S. Özdoğan, M. Polat and M.S. Çelik, Komurun Kurutulmasi and Susuzlandırılması, in Komur-Ozellikleri, Teknolojisi and Cevreyle Iliskileri, Ed. Orhan Kural, ITU Mining Faculty, Maslak-Istanbul, 297, 1998.

3. PRINTED FULL ARTICLES IN OTHER JOURNALS

46. G Yelken, M Polat, AFM Silica-Probing of Charge Distribution On Quartz (0001) And Sapphire (0001) Surfaces, Journal of the Turkish Chemical Society, Section B: Chemical Engineering, Volume 1(1), 25 – 34, 2017.
47. A Şakar-Deliormanlı, E Çelik, M Polat, Factors Affecting The Drying Behavior Of Ceramic Films, Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi 9 (3), 105-110.
48. A Şakar-Deliormanlı, E Çelik, M Polat, Investigation The Drying Behavior Of Ceramic Suspension Droplets, Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi 9 (3), 273-277.
49. Influence of Molecular Architecture Of Polymers on Dispersion Properties Of Ceramic Suspensions, Journal of Ore Dressing, 11 (21), 9, 2009.
50. K. Koruyan, E. Yalçın, M. Polat, Ocak Tozlarının Su Spreyleri ile Bastırılmasının Modellenmesi (Modelling of Suppression of Mine Dust using Water Sprays), TURKISH MINING JOURNAL, 47,3-14, 2008.
51. M. Polat, K. Sato, T. Nagaoka, K. Watari, Measurement of Interaction Force Between Oxide Surfaces by Atomic Force Microscopy-Colloid Probe Method and Comparison with Theory, JOURNAL OF ORE DRESSING, 7-14, 1-33, 2007.
52. S. Chander, H. Polat and M. Polat, Coal Flotation, JOURNAL OF ORE DRESSING, 6, 11, 29-53, 2004.
53. H. Cohen, M. Polat , E. Lederman, E. Guler, G. Akar, H. Mordogan and I. Pelly, Chemical Scrubbing of Acidic/Organic Effluents using Coal Fly Ashes, JOURNAL OF ORE DRESSING, 6, 18, 2001.
54. H. Polat and M. Polat, A Review of the Theory of Interactions between Particles Dispersed in Aqueous Media, III. Electrostatic and Structural Interactions and the DLVO Theory, JOURNAL OF ORE DRESSING, 4, 1, 2000.
55. H. Polat, M. Polat and S. Gorgen, Recent developments on Suppression of Respirable Airborne Dust (In Turkish), TURKISH MINING JOURNAL, 3, No. 1, 39, 2000
56. M. Polat, A Review of the Interactions between Particles Dispersed in Aqueous Media, I: The Electrical Double Layer, JOURNAL OF ORE DRESSING, 2, 7, 1999.

4. PRINTED FULL ARTICLES IN CONFERENCES, SYMPOSIA, AND CONGRESSES

57. M. Çevik Eren, O. Dal, M. Polat and H. Polat, Design of Drug-Bearing Mesoporous Silica Nano Particles with Chitosan Shells for Controlled Release, The Proceedings of the 4th International Porous and Powder Materials Symposium and Exhibition, Ed. G. Yelken, M.Polat, M. Tanoglu, ISBN: 978-975-6590-12-6, pp. 14-17, 9-11 October 2019.
58. N. Zeybek, M. Polat and H. Polat, Synthesis of Curcumin Loaded Xylan-Chitosan Composite Nanoparticles, The Proceedings of the 4th International Porous and Powder Materials Symposium and Exhibition, Ed. G. Yelken, M.Polat, M. Tanoglu, ISBN: 978-975-6590-12-6, pp. 46-50, 9-11 October 2019.
59. E. Gokmen, H. Polat and M. Polat, Synthesis of Composite Silica-Borate Nanoparticles with Different Size Distribution, The Proceedings of the 4th International Porous and Powder Materials Symposium and Exhibition, Ed. G. Yelken, M.Polat, M. Tanoglu, ISBN: 978-975-6590-12-6, pp. 51-56, 9-11 October 2019.
60. A. N. Olcay Kurt, M. Polat and H. Polat, Controlling the Structural Voids and Intrinsic Micro Pores of Chitosan Based Biofoams, The Proceedings of the 4th International Porous and Powder Materials Symposium and Exhibition, Ed. G. Yelken, M.Polat, M. Tanoglu, ISBN: 978-975-6590-12-6, pp. 82-86, 9-11 October 2019.
61. H. Polat, E. Cihan, M. Polat, Comparing the morphology of chitosan nanoparticles manufactured by different type of methods, The Proceedings of the 3rd International Porous and Powder Materials Symposium and Exhibition, Ed. O.C. Duvarci, M.Polat, M. Tanoglu, 178-182, 2017.
62. E.S. Sop, E. Cihan, M. Polat, Production of nano-sized silica particles with controlled size distribution using seed particles, The Proceedings of the 3rd International Porous and Powder Materials Symposium and Exhibition, Ed. O.C. Duvarci, M.Polat, M. Tanoglu, 412-417, 2017.
63. G. Yelken, M. Polat AFM Silica-Probing of Charge Distribution on Quartz (0001) And Sapphire (0001) Surfaces, The Proceedings of the 3rd International Porous and Powder Materials Symposium and Exhibition, Ed. O.C. Duvarci, M.Polat, M. Tanoglu, 482-487, 2017.
64. M Polat, M Kemal, Calculation of Unstationary Trajectories of Particles from the Mechanical Parameters of An Air Pulsated Jig, Mineral Processing on the Verge of the 21st Century, Routledge, 105-110, 2017.
65. E.S. Sop, E. Erol, G. Palaz, M Polat, H. Polat, Manufacturing of hollow spherical silica nanoparticles with controlled morphology by spontaneous emulsification. The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 176-179, 2015.
66. E.S. Sop, M. Schongut, M Polat, H. Polat, Mechanism of nano-silica production in a standard geometry cell, International Porous And Powder Materials Symposium And Exhibition , 188-193, 2015.
67. E.C. Cihan, E. Değirmenci, S.H. Coskun, U. Alhan, M. Polat, H. Polat, Design of micelle embedded chitosan nano particles for targeted delivery of hydrophobic drugs, The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 348-352, 2015.
68. A.N. Olcay, S. Kirköse, M. Ozpirin, M. Polat, H. Polat, Protein stabilized oil/water emulsions. The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 378-382, 2015.
69. A.N. Olcay, M. Polat, H. Polat, Ultrafiltration in the presence of surface active molecules and aggregates. The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 433-437, 2015.
70. G. Kanalti, Z. Traş, A.N. Olcay, M. Polat, H. Polat, Capture of Low Molecular Weight Organic Contaminant within Micelle Structures In MEUF, The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 3-6 September 2013, Cesme Izmir Turkey, 502-505, 2013.
71. K. Özdenkci, C. Siretli, H. Polat, M. Polat, Removal of Copper from Dilute Solutions Using SDS Aided Active Carbon Adsorption, The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 3-6 September 2013, Cesme Izmir Turkey, 514-519, 2013.

72. F. Nacar, A.E. Ermiş, M. Polat, H. Polat, Morphology of Micellar Structures in Simulated Body Fluid for Drug Delivery Purposes, The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 3-6 September 2013, Cesme Izmir Turkey, 559-562, 2013.
73. A.N. Olcay, M. Polat, H. Polat, Morphology of Micelles and Micellar Aggregates as a Function of Electrolyte Valence and Concentration, The Proceedings of International Porous and Powder Materials Symposium and Exhibition, Ed. S.K. Ozdemir, M.Polat, M. Tanoglu, 3-6 September 2013, Cesme Izmir Turkey, 680-685, 2013.
74. G. Yelken Ozek, M. Polat, A review of State of Art in Determination of Interatomic Forces between Metal Oxide Surfaces in Solutions using AFM, 32nd International Conference on Vacuum Microbalance and Thermoanalytical Techniques IVMTTC32, Kazimierz Dolny, Poland, 26, 2009.
75. Polat M., Polat H., Ipekoglu, U., Theory and Measurement of Interaction Forces between Colloidal Particles, 7th international Industrial Minerals Symposium and Exhibition, Kuşadası, TURKEY, 296, 2009.
76. G. Yelken Ozek, M. Polat, Surface forces between Si₃N₄ AFM tip and glass surface, EMCC-5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Cetraro, Italy, 295-299, 2008.
77. B.Ü.Ülkü, M.Polat, H.Polat, K.Sekeroglu, Characterization of fly ashes and the aggregates produced from ash-waste mixtures, XI. International Mineral Processing Symposium, Antalya, Turkey, 275, 2008.
78. B.Ü.Ülkü, M.Polat, H. Polat, Evaluation of the Use of Fly Ashes for Industrial Wastewater Utilization, 2nd International Conference on Engineering for Waste, Volarization, Patras, Greece, 435, 2008.
79. M. Polat, Solution of the non-linear Poisson Boltzmann Theory for the general case of dissimilar double layers, Proc. of the XXIIIrd International Mineral Processing Congress, Ed. G. Onal et al., Istanbul-Turkey, 725, 2006.
80. M. Polat, K. Sato, T. Nagaoka and K. Watari, AFM-Colloid Probe Measurements of the interaction Energy between α -Alumina Surfaces as a function of Ph, Proc. of the 22nd International Japan-Korea Seminar on Ceramics, 121-124, Nov. 24-26, 2005.
81. H. Cohen E.I. Pelly, M. Werner and M. Polat, Fly ash as an Excellent Chemical Scrubber to Acidic Wastes of the Phosphate Industry in Israel, Proc. of the 10th International Mineral Processing Symposium, Ed. A. Akar, Ü. Ipekoglu, I. Cöcen and M. Polat, Çe^ome, Izmir Turkey, October, 699-706, 2004.
82. G. Güler, E. Güler, Ü. Ipekoglu, A. Seyrankaya, H. Mordogan and M. Polat, Leachability of Elements Contained in Coal Ash Samples from Coal-Fired Power Plants in Western Turkey.
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