

A) In Journals:

2007

1. "Equilibrium swelling behavior and elastic properties of polymer-clay nanocomposite hydrogels"
S. Abdurrahmanoglu, V. Can, O. Okay,
2. "Preparation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture at subzero temperatures"
M.M. Ozmen, M.V. Dinu, O. Okay,
3. "Unusual swelling behavior of polymer-clay nanocomposite hydrogels"
V. Can, S. Abdurrahmanoglu, O. Okay O, *Polymer* (2007)
4. "Preparation of homogeneous polyacrylamide hydrogels by free-radical crosslinking copolymerization"
E. A. Kuru, N. Orakdogen, O. Okay, *Eur. Polym. J.* 43, 2913-2921 (2007)
5. "Preparation of Macroporous Acrylamide-based Hydrogels: Cryogelation under Isothermal Conditions"
M. M. Ozmen, M. V. Dinu, E. S. Dragan, O. Okay, *J. Macromol. Sci. A: Pure and Appl. Chem.* (2007)
6. "Polyacrylamide - clay nanocomposite hydrogels: Rheological and light scattering characterization"
O. Okay, and W. Oppermann, *Macromolecules* 40, 3378-3387 (2007)
7. "Macroporous hydrogels from smart polymers",
O. Okay, in B. Mattiasson and I. Galaev, eds., *Smart Polymers: Production, Study and Application in Biotechnology and Biomedicine*, pp. 269-299, Taylor and Francis, Boca Raton, FL, 2007.
8. "Influence of the initiator system on the spatial inhomogeneity in acrylamide-based hydrogels"
N. Orakdogen N, and O. Okay, *J. Appl. Polym. Sci.* 103, 3228-3237 (2007)
9. "Freezing as a path to built macroporous structures: Superfast responsive polyacrylamide hydrogels"
M. V. Dinu, M. M. Ozmen, E. S. Dragan, and O. Okay, *Polymer* 48, 195-204 (2007)

2006

10. "Network Development in Mixed Step-Chain Growth Thiol-Vinyl Photopolymerizations"
S.K. Reddy, O. Okay, and C.N. Bowman, *Macromolecules* 39, 8832-8843 (2006)
11. "Correlation between crosslinking efficiency and spatial inhomogeneity in poly(acrylamide)hydrogels"
N. Orakdogen, and O. Okay, *Polymer Bulletin* 57, 631-641 (2006)
12. "Superfast responsive ionic hydrogels: Effect of the monomer concentration"
M.M. Ozmen, and O. Okay, *J. Macromol. Sci. A: Pure and Appl. Chem.* 43, 1215-1225 (2006)
13. "Phase transition of acrylamide-based polyampholyte gels in water"
D. Ceylan, V. Can, and O. Okay, *J. Macromol. Sci. A: Pure and Appl. Chem.* 43, 1635-1649 (2006)
14. "Swelling-deswelling kinetics of poly(acrylamide) hydrogels and cryogels"
D. Ceylan, M.M. Ozmen, and O. Okay, *J. Appl. Polym. Sci.* 99, 319-325 (2006)
15. "Effect of initial monomer concentration on the equilibrium swelling and elasticity of hydrogels"
N. Orakdogen, and O. Okay, *Eur. Polym. J.* 42 (2006)
16. "Swelling-deswelling kinetics of poly(N-isopropylacrylamide) hydrogels formed in PEG solutions"
Y. Dogu, and O. Okay, *J. Appl. Polym. Sci.* 99, 37-44 (2006)
17. "Reentrant conformation transition in poly(N,N-dimethylacrylamide) hydrogels in water-organic solvent mixtures"
N. Orakdogen, and O. Okay, *Polymer* 47, 561-568 (2006)

2005

18. "Suppression of inhomogeneities in hydrogels formed by free-radical crosslinking copolymerization"
N. Orakdogen, M.Y. Kizilay, and O. Okay, *Polymer* 46, 11407-11415 (2005)
19. "Superfast responsive ionic hydrogels with contrrollable pore size"
M.M. Ozmen, and O. Okay, *Polymer* 46, 8119-8127 (2005)
20. "Shake gels based on Laponite-PEO mixtures: Effect of polymer molecular weight"
V. Can, and O. Okay, *Designed Monomers Polymers* 8, 453-462 (2005)
21. "Molecular weight development during thiol-ene photopolymerizations"
O. Okay, S.K. Reddy, and C.N. Bowman, *Macromolecules* 38, 4501-4511 (2005)
22. "Kinetic modeling of thiol-ene reactions with both step and chain growth aspects"
O. Okay, and C.N. Bowman, *Macromol. Theory Simul.* 14, 267-277 (2005)
23. "Spatial inhomogeneity in poly(acrylic acid) hydrogels"

I. Yazici, and O. Okay, *Polymer* 46, 2595-2602 (2005)

24. "Effect of spatial gel inhomogeneity on the elastic modulus of strong polyelectrolyte hydrogels"

A. Ozdogan, and O. Okay, *Polymer Bull.* 54, 435-442 (2005)

2004

25. "Non-Gaussian elasticity of poly(2-acrylamido-2-methylpropane sulfonic acid) gels"
M.M. Ozmen, and O. Okay, *Polymer Bull.* 52, 83-90 (2004)

26. "Swelling, elasticity and spatial inhomogeneity of poly(N,N-dimethylacrylamide) hydrogels formed at various polymer concentrations"

N. Gundogan, O. Okay and W. Oppermann, *Macromol. Chem. Phys.* 205, 814-823 (2004)

27. "Effect of swelling on spatial inhomogeneity in poly(acrylamide) gels formed at various monomer concentrations"

M.Y. Kızılay, and O. Okay, *Polymer* 45, 2576-2576 (2004)

28. "Swelling and elasticity of poly(N-isopropylacrylamide-co-4-vinylbenzenesulfonic acid sodium salt) hydrogels"

N. Gundogan, D. Melekaslan, and O. Okay, *J. Appl. Polym. Sci.* 94, 135-141 (2004)

29. "Minimization of spatial inhomogeneity in polystyrene gels formed by free-radical mechanism"

H. Cerid, and O. Okay, *Eur. Polym. J.* 40, 579-587 (2004)

30. "Swelling and elasticity of hydrogels based on a poly(ethylene oxide) macroinimer"
D. Melekaslan, F. Kasapoglu, K. Ito, Y. Yagci, and O. Okay, *Polymer International* 53, 237-242 (2004)

2003

31. "Non-Gaussian elasticity of swollen poly(N-isopropylacrylamide) gels at high charge densities"

N. Gundogan, D. Melekaslan, and O. Okay, *Eur. Polym. J.* 39, 2209-2216 (2003)

32. "Effect of hydrolysis on spatial inhomogeneity in poly(acrylamide) gels of various crosslink densities"

M.Y. Kızılay, and O. Okay, *Polymer* 44, 5239-5250 (2003)

33. "Elasticity of poly(acrylamide) gel beads"

D. Melekaslan, N. Gundogan, and O. Okay, *Polymer Bull.* 50, 287-294 (2003)

34. "Swelling behavior of strong polyelectrolyte poly(N-t-butyl acrylamide-co-acrylamide) hydrogels"

M.M. Ozmen, and O. Okay, *Eur. Polym. J.* 39, 877-886 (2003)

35. "Effect of initial monomer concentration on spatial inhomogeneity in poly(acrylamide) gels"

M.Y. Kızılay, and O. Okay, *Macromolecules* 36, 6856-6862 (2003)

36. "Swelling and elasticity of poly(N-isopropylacrylamide) gels immersed in the melt of poly(ethylene glycol) chains"

D. Melekaslan, N. Gundogan, and O. Okay, *Polymer* 44, 2281-2288 (2003)

2002

37. "Temperature dependent swelling behavior of ionic poly(N-isopropylacrylamide) gels in PEG solutions"

D. Melekaslan, and O. Okay, *Polymer Bull.* 49, 181-188 (2002)

38. "Temperature sensitive poly(N-t-butyl acrylamide-co-acrylamide) hydrogels: synthesis and swelling behavior"

V. Ozturk, and O. Okay, *Polymer* 43, 5017-5026 (2002)

39. "Rubber elasticity of poly(N-isopropylacrylamide) gels at various charge densities"

N. Gundogan, D. Melekaslan, and O. Okay, *Macromolecules* 35, 5616-5622 (2002)

40. "Macroporous poly(N-isopropylacrylamide) networks"

C. Sayil, and O. Okay, *Polymer Bull.* 48, 499-506 (2002)

41. "Swelling and mechanical properties of solution crosslinked poly(isobutylene) gels"

S. Durmaz, S. Fank, and O. Okay, *Macromol. Chem. Phys.* 203, 663-672 (2002)

42. "Real time temperature and photon transmission measurements for monitoring phase separation during the formation of poly(N-isopropylacrylamide) gels"

S. Kara, O. Okay, and O. Pekcan, *J. Appl. Polym. Sci.* 86, 3589- 3595 (2002)

43. "Volume phase transition of polymer networks in polymeric solvents"

O. Okay, and N. Gundogan, *Macromol. Theory Simul.* 11, 287-292 (2002)

44. "Reentrant phase transition of poly(N-isopropylacrylamide) gels in polymer solutions: Thermodynamic analysis"

N. Gundogan, and O. Okay, *J. Appl. Polym. Sci.* 85, 801-813 (2002)

45. "Charge density dependence of elastic modulus of strong polyelectrolyte hydrogels"

O. Okay, and S. Durmaz, *Polymer* 43, 1215-1221 (2002)

46. "Swelling-shrinking hysteresis of poly(N-isopropyl)acrylamide) gels in sodium dodecylbenzenesulfonate solutions"

C. Sayil, and O. Okay, *J. Appl. Polym. Sci.* 83, 1228-1232 (2002)

2001

47. "Inhomogeneities in poly(acrylamide) gels: Position-dependent elastic modulus measurements"

S. Durmaz, and O. Okay, *Polymer Bull.* 46, 409 - 418 (2001)

48. "Macroporous poly(N-isopropyl) acrylamide networks: Formation conditions"

C. Sayil, and O. Okay, *Polymer* 42, 7639 - 7652 (2001)

49. "Elastic behavior of solution crosslinked poly(isobutylene) gels under large compression"

M.N. Ince, B. Erman, O. Okay, and S. Durmaz, *Polymer* 42, 3771-3777 (2001)

50. "Reentrant phase transition of strong polyelectrolyte poly(N-isopropylacrylamide) gels in PEG solutions"

D. Melekaslan, and O. Okay, *Macromol. Chem. Phys.* 202,304 - 312 (2001)

2000

51. "In situ photon transmission technique for monitoring phase separation in real time during gelation"

S. Kara, O. Okay, and O. Pekcan, *Polymer Bull.* 45, 281-285 (2000)

52. "The effect of preparation temperature on the swelling behavior of poly(N-isopropylacrylamide) gels"

C. Sayil, and O. Okay, *Polymer Bull.* 45, 175-182 (2000)

53. "Swelling of strong polyelectrolyte hydrogels in polymer solutions: Effect of ion pair formation on the polymer collapse"

D. Melekaslan, and O. Okay, *Polymer* 41, 5737-5747 (2000)

54. "Macroporous Copolymer Networks"

O. Okay, *Progress in Polymer Science* 25, 711-779 (2000)

55. "Solution crosslinked poly(isobutylene) gels: synthesis and swelling behavior"

O. Okay, S. Durmaz, and B. Erman, *Macromolecules* 33, 4822-4827 (2000)

56. "Acrylamide / 2-acrylamido- 2- methyl propane sulfonic acid sodium salt -based hydrogels: Synthesis and characterization"

S. Durmaz, and O. Okay, *Polymer* 41, 3693-3704 (2000)

57. "Gel growth in free-radical crosslinking copolymerization: Effect of inactive gel radicals"

O. Okay, *Macromol. Theory Simul.* 9, 354-361 (2000)

58. "Phase separation during the formation of poly(acrylamide) hydrogels"

S. Durmaz, and O. Okay, *Polymer* 41, 5729-5735 (2000)

59. "Swelling Behavior of Poly(acrylamide-co-sodium acrylate) Hydrogels in Aqueous Salt Solutions: Theory versus Experiments"

O. Okay, and S.B. Sariisik, *Eur. Polym. J.* 36, 393-399 (2000)

1999

60. "Heterogeneities during the formation of poly(sodium acrylate) hydrogels"

O. Okay, Y. Yilmaz, D. Kaya, M. Keskinel, and O. Pekcan, *Polymer Bull.* 43, 425-431 (1999)

61. "Observation of critical opalescence in free radical crosslinking copolymerization of styrene and divinylbenzene by fluorescence method"
O. Pekcan, D. Kaya, and O. Okay, *Eur. Polym. J.* 35, 2025-2029 (1999)
62. "Formation of Macroporous Styrene - Divinylbenzene Copolymer Networks: Theory versus Experiments"
O. Okay, *J. Appl. Polym. Sci.* 74, 2181-2195 (1999)
63. "Free-radical Crosslinking Copolymerization of Styrene and Divinylbenzene: Real Time Monitoring of the Gel Effect Using Fluorescence Probe"
O. Okay, D. Kaya, and O. Pekcan, *Polymer* 40, 6179-6187 (1999)
64. "Phase Separation in Free-Radical Crosslinking Copolymerization: Formation of Heterogeneous Polymer Networks"
O. Okay, *Polymer* 40, 4117-4129 (1999)
65. "Pore memory of Macroporous Styrene -Divinylbenzene Copolymer Beads"
E. Erbay, and O. Okay, *J. Appl. Polym. Sci.* 71, 1055-1062 (1999)

1998

66. "Macroporous Styrene - Divinylbenzene Copolymers: Formation of Stable Porous Structures during the Copolymerization"
E. Erbay, and O. Okay, *Polymer Bull.* 41, 379-385 (1998)
67. "Swelling Behavior of Anionic Acrylamide-based Hydrogels in Aqueous Salt Solutions: Comparison of Experiment with Theory"
O. Okay, S.B. Sariisik, and S.D. Zor, *J. Appl. Polym. Sci.* 70, 567-575 (1998)
68. "Heterogeneities in polyacrylamide gels immersed in acetone- water mixtures"
O. Okay, and U. Akkan, *Polymer Bull.* 41, 363-370 (1998)
69. "Swelling of polyacrylamide gels in polyacrylamide solutions"
N. Kayaman, O. Okay, and B.M. Baysal, *J. Polym. Sci., Polym. Phys. Ed.*, 36, 1313-1320 (1998)
70. "Effects of Cyclization and Electrostatic Interactions on the Termination Rate of Macroradicals in Free-Radical Crosslinking Copolymerization"
M. Keskinel, and O. Okay, *Polymer Bull.* 40, 491- 498 (1998)
71. "Microgels- intramolecularly crosslinked macromolecules with a globular structure"
W. Funke, O. Okay, and B. Joos-Muller, *Advances in Polymer Science* 136,139-234 (1998)
72. "Structure and protein separation efficiency of poly(N-isopropylacrylamide) gels: Effect of synthesis conditions"
N. Kayaman, D. Kazan, A. Erarslan, O. Okay, and B.M. Baysal, *J. Appl. Polym. Sci.* 67, 805-814 (1998).

1997

73. "Phase transition of hydrolyzed polyacrylamide gels in PEG solutions"
N. Kayaman, O. Okay, and B.M. Baysal, Turk. J. Chem. 21, 346-352 (1997)
74. "Effects of cyclization and pendant vinyl group reactivity on the swelling behavior of polyacrylamide gels"
O. Okay, N.K. Balintas, and H.J. Naghash, Polymer Bull. 39, 233-239 (1997)
75. "Swelling of polyacrylamide gels in aqueous solutions of ethylene glycol oligomers"
N. Kayaman, O. Okay, and B.M. Baysal, Polymer Gels and Networks 5, 339-356 (1997)
76. "Real time monitoring of polymerization rate of methyl methacrylate using fluorescence probe"
O. Pekcan, Y. Yilmaz, and O. Okay, Polymer 38, 1693-1698 (1997)
77. "Gel formation by chain crosslinking photopolymerization of methyl methacrylate and ethylene glycol dimethacrylate"
H.J. Naghash, O. Okay, and Y. Yagci, Polymer 38, 1187-1196 (1997)
78. "Phase transition of polyacrylamide gels in PEG solutions"
N. Kayaman, O. Okay, and B.M. Baysal, Polymer Gels and Networks 5, 167-184 (1997)

1996

79. "Critical properties for gelation in free-radical crosslinking polymerization"
O. Okay, Turk. J. Phys. 20, 27-32 (1996)
80. "Determination of reaction activation energy during gelation in free-radical crosslinking copolymerization using the steady-state fluorescence method"
O. Pekcan, Y. Yilmaz, and O. Okay, J. Appl. Polym. Sci. 61, 2279-2284 (1996)
81. "Size distribution of polymers during the photoinitiated free-radical copolymerization of methyl methacrylate and ethylene glycol dimethacrylate"
H.J. Naghash, O. Okay, and Y. Yagci, Polymer Bull. 37, 207-213 (1996)
82. "Kinetics of emulsifier-free emulsion polymerization of methyl methacrylate"
T. Tanrisever, O. Okay, and I.C. Sonmezoglu, J. Appl. Polym. Sci. 61, 485-493 (1996)
83. "In situ fluorescence experiments to test the reliability of random bond and site bond percolation models during sol-gel transition in free-radical crosslinking copolymerization"
O. Pekcan, Y. Yilmaz, and O. Okay, Polymer 37, 2049-2053 (1996)
84. "Formation and structure of polyacrylamide gels"
H.J. Naghash, and O. Okay, J. Appl. Polym. Sci. 60, 971-979 (1996)

1995

85. "Effect of diluents on the porous structure of crosslinked polymethyl methacrylate beads"
I. Kucuk, A. Kuyulu, and O. Okay, *Polymer Bull.* 35, 511-516 (1995)
86. "Critical properties for gelation in free-radical crosslinking copolymerization"
O. Okay, H.J. Naghash, and O. Pekcan, *Macromol. Theory & Simul.* 4, 967-981 (1995)
87. "Free radical crosslinking copolymerization. Effect of cyclization on diffusion-controlled termination at low conversion"
O. Okay, H.J. Naghash, and I. Capek, *Polymer* 36, 2413-2419 (1995)
88. "Cyclization and Reduced Pendant Vinyl Group Reactivity during the Free-radical Crosslinking Polymerization of 1,4-Divinylbenzene"
O. Okay, M. Kurz, K. Lutz, and W. Funke, *Macromolecules* 28, 2728 - 2737 (1995)
89. "Gel Formation in Free-radical Crosslinking Copolymerization"
H.J. Naghash, O. Okay, and H. Yildirim, *J. Appl. Polym. Sci.* 56, 477 - 483 (1995)

1994

90. "Pendant Vinyl Group Reactivity during the Free-radical Copolymerization of Methyl Methacrylate and Ethylene Glycol Dimethacrylate"
O. Okay, and H.J. Naghash, *Polymer Bull.* 33, 665 - 672 (1994)
91. "Fluorescence Technique to Study Sol-Gel Transition in the Free-radical Crosslinking Copolymerization of Methyl Methacrylate and Ethylene Glycol Dimethacrylate"
O. Pekcan, Y. Yilmaz, and O. Okay, *Chem. Phys. Lett.* 229, 537-540 (1994)
92. "Kinetics of Gelation in Free-radical Crosslinking Copolymerization"
O. Okay, *Polymer* 35, 2613 - 2618 (1994)
93. "Gel Properties in Free-radical Crosslinking Copolymerization: A Kinetic Approach"
O. Okay, *Makromol. Chem. Theory and Simul.* 3, 417 - 427 (1994)
94. "Kinetic Modelling of Network Formation and Properties in Free-radical Copolymerization"
O. Okay, *Polymer* 35, 796 - 807 (1994)

1993

95. "Intramolecularly Crosslinked Macromolecules - Formation and Structure, Characterization and Particle Properties"
W. Funke, H. Bauer, B. Joos, J. Kaczun, B. Kleiner, U. Leibelt, and O. Okay, *Polymer International* 30, 519 - 523 (1993)

1992

96. "Synthesis and Formation Mechanism of Porous 2-Hydroxyethyl Methacrylate - Ethylene Glycol Dimethacrylate Copolymer Beads"
O. Okay, and C. Gurun, *J. Appl. Polym. Sci.* 46, 401-410 (1992)

97. "Formation and Structural Characteristics of Porous Ethylene Glycol Dimethacrylate Networks"
O. Okay, and C. Gurun, *J. Appl. Polym. Sci.* 46, 421-434 (1992)

1990

98. "Steric Stabilization of Reactive Microgels from 1,4-Divinylbenzene"
O. Okay, and W. Funke, *Makromol. Chem. Rapid Commun.* 11, 583-587 (1990)
99. "Conditions of Microgel Formation in the Anionic Polymerization of 1,4-Divinylbenzene"
O. Okay, and W. Funke, *Makromol. Chem.* 191, 1565-1573 (1990)
100. "Anionic Dispersion Polymerization of 1,4-Divinylbenzene"
O. Okay, and W. Funke, *Macromolecules* 23, 2623-2628 (1990)

1988

101. "Formation and Structural Characteristics of Loosely Crosslinked Styrene-Divinylbenzene Networks"
O. Okay, *Makromol. Chem.* 189, 2201-2217 (1988)
102. "Styrene-Divinylbenzene Copolymers VII. Stability of the Porous Structures Formed in Toluene-Cyclohexanol Mixtures"
O. Okay, *Angew. Makromol. Chem.* 157, 15-21 (1988)
103. "Styrene-Divinylbenzene Copolymers VI. Porosity Formation in the Presence of Toluene-Cyclohexanol Mixtures as Inert Diluents"
O. Okay, *Angew. Makromol. Chem.* 157, 1-13 (1988)

1987

104. "Styrene-Divinylbenzene Copolymers V. Inhomogeneity in the Structure and Average Degree of Swelling"
O. Okay, *Angew. Makromol. Chem.* 153, 125-134 (1987)
105. "Porous Maleic Anhydride-Styrene-Divinylbenzene Copolymer Beads"
O. Okay, *J. Appl. Polym. Sci.* 34, 307-317 (1987)

1986

106. "Styrene-Divinylbenzene Copolymers IV. Porosity Changes During Chloromethylation"
O. Okay, *Angew. Makromol. Chem.* 143, 209-214 (1986)
107. "Heterogeneous Styrene-Divinylbenzene Copolymers. Stability Conditions of the Porous Structures"
O. Okay, *J. Appl. Polym. Sci.* 32, 5533-5542 (1986)

108. "Heterogeneous Styrene-Divinylbenzene Copolymers in Collapsed and Reexpanded States"
O. Okay, and T.I. Balkas, J. Appl. Polym. Sci. 31, 1785-1795 (1986)

1985

109. "Phase Separation in the Synthesis of Styrene-Divinylbenzene Copolymers with Di-2-ethylhexyl Phthalate as Diluent"
O. Okay, E. Soner, A. Gungor, and T.I. Balkas, J. Appl. Polym. Sci. 30, 2065-2074 (1985)
110. "Boron Pollution in the Simav River, Turkey and Various Methods of Boron Removal"
O. Okay, H. Guclu, E. Soner, and T.I. Balkas, Water Research 19, 857 - 862 (1985)

1984

111. "Stark basische Ionenaustauscher auf Guanidiniumsalz-Formaldehyd-Aceton-Basis"
O. Okay, and H. Schindlbauer, Angew. Makromol. Chem. 127, 203-209 (1984)
112. "Wasserlösliche Kationisch Modifizierte Copolymere mit Acrylamid"
O. Okay, and H. Schindlbauer, Angew. Makromol. Chem. 122, 21-31 (1984)

B) Patents:

1. “Superabsorbent materials based on butyl rubber: Process for making said materials and use of them”

B. Erman, O. Okay, and S. Durmaz,
International Patent, Patent Number WO0148042 A1, AU2470800, Publication Date: 2001-07-05

2. “Biyolojik çözeltilerin konsantre edilmesi için sıcaklığa duyarlı polimerik jel kürecikleri üretimi”

N. Kayaman, O. Okay, D. Kazan, A. Erarslan, and B.M. Baysal,
T. C. Patent No: TR 1996 00295 B, 8.04.1996

3. “Petrol döküntülerinin yüzey sularından uzaklaştırılması için yeni bir makrogözenekli sorbent üretimi ve uygulaması”

O. Okay, and D. Ceylan,
T. C. Patent Müracaatı(2007)

C) Others (papers in national journals, thesis, reports, books)

1. Okay, O., Die Einbaumöglichkeiten von Guanidin in Polymere und die Herstellung von Ionenaustauschern auf Guanidinsalz-Formaldehyd-Basis, *Diplomarbeit*, Technische Universität Wien, 1978.
2. Okay, O., Herstellung von ionischen Polymeren auf Guanidinsalz - Formaldehyd / Aceton- und auf Acrylamid-Basis, ihre Anwendung als Anionenaustauscher und Flockungshilfsmittel zur Reinigung von Abwässern, *Dissertation*, Technische Universität Wien, 1981.
3. Okay, O., Balkas, T., Jeotermal sulardan borun kimyasal yolla arindirilmesi, *TÜBİTAK MBEAE* Yayın No: 97, Subat 1983, 17 sayfa.
4. Okay, O., Güçlü, H., Birecikli, Ü., Emil, T., Pentaeritritol üretimi” *TÜBİTAK MBEAE* Yayın No: 110, Kasım 1983, 28 sayfa.
5. *TÜBİTAK MBEAE* Kimya Müh. Aras. Böl., Waste water treatment and disposal studies NATO TU - Waters, Progress reports, 1984 - 1985.
6. Okay, O., Experiments in Physical Chemistry, *Ders ve Laboratuvar Kitabı*, Dogu Akdeniz Üniversitesi, Eylül 1991, 98 sayfa.
7. Okay, O., Teknoloji mi? Temel Araştırma mi?, *Cumhuriyet Bilim Teknik*, Sayı 359, sayfa 6, Subat 1994.
8. Pekcan, Ö., Yılmaz, Y., Okay, O., Fluorescence technique for studying the sol-gel transition in free-radical crosslinking copolymerization of methyl methacrylate and ethylene glycol dimethacrylate, abstract, *Turkish Journal of Physics* 20, 70 (1996)
9. Kaya, D., Okay, O., Pekcan, Ö., Real Time Monitoring of the Gel Effect in Free-Radical Crosslinking Copolymerization of Styrene and Divinylbenzene Using Fluorescence Probe *Turkish Journal of Physics* 23, 179 (1999)
10. Okay, O., Olgun, H., Karakoc, F., Ayar, R., Okay, D., 21-23/04/2001 Hasandağý Týrmanyý *MAM Gündem*, Sayý35, Mayıs-Haziran 2001, Sayfa 9-11 (GEZÝ)
11. Okay, O., Kimya Bölümlerinin bilimsel başarıýý *Cumhuriyet Bilim Teknik*, Sayý1050 (4.05.2007).

D) Presentations in Conferences

D-1) International

Main and invited lectures:

Okay, O., "Grundlagenforschung oder anwendungsorientierte Forschung ?" Festvortrag Kolloquium der Alexander von Humboldt-Stiftung für Forschungsstipendiaten aus der Türkei, 19-21 April 1996, Hotel Büyük Efes, Izmir

Okay, O. "Inhomogeneous and heterogeneous network formation by free-radical polymerization"
4th Brazilien Polymer Conference, Bahia-Salvador, Brasil. 28.09 / 2.10.1997 invited lecture

Okay, O., "Swelling and elasticity of hydrogels in polymer melt and in polymer solutions" invited lecture
The Eight International Conference on Chemistry and Physical Chemistry of Oligomers, 9-14 September 2002, Chernogolovka, Russia.

Okay, O. "Swelling, elasticity and inhomogeneity of gels formed by free-radical crosslinking mechanism" main lecture
Polymer Gels and Networks, 44th Microsymposium of P.M.M., Prague, Czech Republic, 10-14 July 2005.

Okay, O., Ozmen, M.M., Dinu M.V., Ceylan D., Can V., "Strategies toward the synthesis of fast responsive gels with improved mechanical properties" invited lecture
European Polymer Congress 2007,
2-6 July 2007, Portoroz, Slovenia.

Lectures

Okay, O., "Free-radical crosslinking copolymerization: Cyclization and diffusion control"
NSF - TÜBİTAK Workshop, "Novel Application of Light Scattering in Polymer Physics: Polymer Coil Collapse in the Poor Solvent Regime", May 1994, Istanbul. (lecture)

Okay, O., "Critical properties for gelation in free-radical crosslinking copolymerization" 2nd Statistical Physics Days, ITÜ Maçka Tesisleri, 13-14.07.1995. (lecture)

Okay, O., Kurz, M., Lutz, K., and Funke, W., "Micro- and macrogelation in free-radical crosslinking polymerization of 1,4-divinylbenzene" (lecture)
35th IUPAC Congress, 14-19 August 1995, Istanbul.

Okay, O., "Serbest-radikal mekanizma ile jel olusumunda kritik özellikler", (lecture)
Polimer '1995 IV. Türkçe Konusan Ülkeler Polimer Sempozyumu, 7-12 Kasim 1995, Tashkent, Özbekistan

Okay, O. "Formation of heterogeneous networks by free-radical crosslinking copolymerization" (lecture)

Polymer Networks 98, 14th Polymer Networks Group International Conference, June 28 - July 3, 1998, The Norwegian University of Science and Technology, NTNU, Trondheim, Norway.

Okay, O. "Swelling of hydrogels in polymer solutions" (lecture)
World Polymer Congress, IUPAC MACRO 2000, 38th Macromolecular IUPAC Symposium, 9-14 July 2000, Warsaw, Poland

Okay, O., Durmaz, S., Erman, B. "Solution crosslinked poly(isobutylene) gels: Synthesis and swelling behavior" (lecture)
15th Polymer Networks Group Meeting, Polymer Networks'2000, Formation-Structure-Properties, 17-21 July 2000, Cracow, Poland

Okay, O., Orakdogan, N., Kizilay MY. "Suppression of inhomogeneities in gels formed by free-radical mechanism" (lecture)
APME 6, August 2005, Istanbul

Okay, O. Design of nano- and micro-scale structures in polymer hydrogels, (lecture).
Polymers: Materials of Advanced Technologies and in Biology, A German-Turkish Workshop, 29-31 August 2006, Max-Planck Institute for Polymer Research, Mainz, Germany,

Okay, O. Design of nano- and micro-scale structures in polymer hydrogels, (lecture). "Petru-Poni "Institute of Macromolecular Chemistry, November 2006, Iasi, Romania,

Okay, O. Swelling and elasticity of hydrogels formed by free-radical mechanism, (lecture). "Petru-Poni "Institute of Macromolecular Chemistry, November 2006, Iasi, Romania,

Others

Okay, O., Naghash, H. J., Capek, I., "Free-radical crosslinking copolymerization: effect of cyclization on diffusion-controlled termination at low conversion" (poster)
Prague Meetings on Macromolecules, Polymer Networks '94, July 1994, Prague, Czech Republic.

Pekcan, Ö., Yilmaz, Y., Okay, O., "Fluorescence technique for studying the sol-gel transition in free-radical crosslinking copolymerization of methyl methacrylate and ethylene glycol dimethacrylate,
2nd Statistical Physics Days, ITÜ Maçka Tesisleri, 13-14.07.1995. (short talk)

Naghash, H.J., Capek, I, and Okay, O. "Cyclization and multiple crosslinking in free radical crosslinking copolymerization" (poster)
35th IUPAC Congress, 14-19 August 1995, Istanbul.

Naghash, H. J., Yildirim, H. and Okay, O., "Gel formation in free-radical crosslinking copolymerization" (poster)
35th IUPAC Congress, 14-19 August 1995, Istanbul.

Kayaman, N., Okay, O. and Baysal, B.M., "Swelling and collapse behaviour of polyacrylamide gels in polymer solutions" (poster)

35th IUPAC Congress, 14-19 August 1995, Istanbul.

Tanrisever, T., Okay, O. and Sönmezoglu, I.Ç., "Kinetics of emulsifier-free emulsion polymerization of methyl methacrylate - ethylene glycol dimethacrylate" (poster)
35th IUPAC Congress, 14-19 August 1995, Istanbul.

Naghash, H.J., Adali, T., Hacıoglu, B., Yagci, Y., and Okay, O., "Gel formation in free-radical crosslinking copolymerization" (poster)
Europhysics Conference on Gels, 25-29 September 1995, Balatonszeplak, Hungary.

Pekcan, Ö., Yilmaz, Y., Okay, O., "Fluorescence method for measuring critical exponents during sol-gel transition in free-radical crosslinking copolymerization" (poster)
Europhysics Conference on Gels, 25-29 September 1995, Balatonszeplak, Hungary.

Kayaman, N., Kazan, D., Erarslan, A., Okay, O., Baysal, B.M., "Protein separation conditions by temperature-sensitive poly(N-isopropylacrylamide) gels" (lecture)
International Conference on Environmental Impact of Polymeric Materials, 23rd Aharon Katzir-Katchalsky Conference, 12 - 16 May 1996, Israil.

Okay, O., "Formation of inhomogeneous and heterogeneous networks by chain crosslinking copolymerization" (poster)
Polymer Networks 96, 13th Polymer Network Group International Conference, 2-6 September 1996, Doorn, Holland

Kayaman, N., Okay, O., Baysal, B.M. "Poliakrilamid jellerinin etilen glikol oligomer çözeltileri içinde sisme davranislari" (poster)
IV. Türkçe Konusan Ülkeler Polimer Sempozyumu, Eylül 1996, ITU, Istanbul.

Kaya, D., Okay, O., Pekcan, Ö., "Free-radical Crosslinking Copolymerization of Styrene and Divinylbenzene: Real Time Monitoring of the Gel Effect By Using Fluorescence Probe"
4. Statistical Physics Days, ITÜ Maçka Tesisleri, 1997. (short talk)

Sariisik, S.B., Zor, S. D., Okay, O., "Swelling behavior of anionic acrylamide-based hydrogels in aqueous salt solutions: Comparison of experiments with theory. (poster)
Polymer Networks 98, 14th Polymer Networks Group International Conference, June 28 - July 3, 1998, The Norwegian University of Science and Technology, NTNU, Trondheim, Norway.

Durmaz, S., Sayil, C, Okay, O., Inci, MN, Taralp, A., Erman, B., "Elasticity measurements of swollen crosslinked microspheres attached to walls using optical microscopy" (lecture)
Material Research Society Spring 2000 Meeting, Symposium FF: Interfaces, Adhesion, and Processing in Polymer Systems, San Francisco, CA.

Melekaslan, D., Okay, O. "Swelling of Poly(NIPA) gels in PEG solutions: Double re-entrant swelling transition" (poster)
World Polymer Congress, IUPAC MACRO 2000, 38th Macromolecular IUPAC Symposium, 9-14 July 2000, Warsaw, Poland

Durmaz, S., Sayil, C, Okay, O. "Phase separation during the formation of poly(acrylamide) hydrogels" (poster)

World Polymer Congress, IUPAC MACRO 2000, 38th Macromolecular IUPAC Symposium, 9-14 July 2000, Warsaw, Poland

Durmaz, S., Okay, O., "Gel growth in free radical crosslinking polymerization of acrylamide: Effect of inactive gel radicals" (poster)
15th Polymer Networks Group Meeting, Polymer Networks'2000, Formation-Structure-Properties, 17-21 July 2000, Cracow, Poland

Melekaslan, D., Okay, O. "Swelling of strong polyelectrolyte hydrogels in PEG solutions: Effect of ion pair formation on the polymer collapse" (poster)
15th Polymer Networks Group Meeting, Polymer Networks'2000, Formation-Structure-Properties, 17-21 July 2000, Cracow, Poland

Sayil, C., Okay, O., "Effect of synthesis conditions on the structure of Poly(NIPA) gels" (poster)
15th Polymer Networks Group Meeting, Polymer Networks'2000, Formation-Structure-Properties, 17-21 July 2000, Cracow, Poland

Inci, MN, Erman, B., Durmaz, S., Okay, O., "Thermomechanical properties of gels: Statistics and dynamics"
Material Research Society Fall 2000 Meeting, Symposium NN: Biomaterials for drug delivery, San Francisco, CA.

Kızılay, MY, Okay, O., "Effect of initial monomer concentration on spatial inhomogeneity in poly(acrylamide) gels" (poster)
Biennial Meeting of the IoP Polymer Physics Group, Univ. of Reading, Polymer Science Centre, UK 10-12 September 2003, Reading, UK.

Can, V., Okay, O "Shake gels based on laponite-PEO mixtures: Effect of polymer molecular weight" (poster)
Polymer Gels and Networks, 44th Microsymposium of P.M.M., Prague, Czech Republic, 10-14 July 2005.

Orakdogan, N., Okay, O "Formation and properties of poly(N,N-dimethylacrylamide) hydrogels" (poster)
Polymer Gels and Networks, 44th Microsymposium of P.M.M., Prague, Czech Republic, 10-14 July 2005.

Kizilay, M.Y., Okay, O "Effect of swelling on spatial inhomogeneity in poly(acrylamide) gels formed at various monomer concentration" (poster)
Polymer Gels and Networks, 44th Microsymposium of P.M.M., Prague, Czech Republic, 10-14 July 2005.

Ozmen, M.M., Okay, O "Effect of preparation temperature on properties of gels based on sodium 2-acrylamido-2-methylpropane-1-sulfonate" (poster)
Polymer Gels and Networks, 44th Microsymposium of P.M.M., Prague, Czech Republic, 10-14 July 2005.

Orakdogan, N., Okay, O "Correlation between crosslinking efficiency and spatial inhomogeneity in poly(acrylamide) hydrogels" (poster)

Polymer Networks Group Conference, Sheffield, England, September 2006.

Ceylan, D., Okay, O "Swelling-deswelling kinetics of ionic poly(acrylamide) hydrogels and cryogels" (poster)

Polymer Networks Group Conference, Sheffield, England, September 2006.

Can, V., Okay, O "Phase transition of acrylamide-based polyampholyte gels in water" (poster)

Polymer Networks Group Conference, Sheffield, England, September 2006.

Dinu, M.V., Ozmen, M.M., Dragan, E.S., Okay, O., "Synthesis of macroporous hydrogels from frozen monomer solutions under various experimental conditions"

European Polymer Congress 2007,
2-6 July 2007, Portoroz, Slovenia.

D-2) National

Okay, O., "Polimer jellerinde faz geçisi" (B)

1. Ulusal Makromolekül Kollokyumu, Aralık 1984, Ankara.

Okay, O., "Büyük gözenekli stiren-divinilbenzen kopolimer küreciklerinin olusum kosullari" (B)

2. Ulusal Kimya Simpozyumu, Eylül 1985, Ankara.

Altinbas, U., Ipekoglu, N., Okay, O., Balkas, T. I., "Bor selektif iyon degistirici reçine sentezi" (P) 2. Ulusal Kimya Simpozyumu, Eylül 1985, Ankara.

Altinbas, U., Okay, O., Ipekoglu, N., "Bor'a özgü formaldehit esasli iyon degistirici reçine sentezi ve jeotermal sulara uygulanabilirliđi" (P)

2. Ulusal Kimya Simpozyumu, Eylül 1985, Ankara.

Okay, O., "Stiren-divinilbenzen kopolimerlerinde gözeneklilik olusumuna polimerizasyon ortamindaki seyreltici niteliginin etkisi" (B)

2. Ulusal Makromolekül Simpozyumu, Kasim 1985, Ankara.

Okay, O., "Gözenekli stiren-maleikanhidrit-divinilbenzen kopolimer küreciklerinin sentez ve karakterizasyonlari" (B)

3. Kimya ve Kimya Mühendisligi Simpozyumu, Eylül 1986, Ankara.

Okay, O., "Gözenekli stiren-divinilbenzen kopolimerlerinde inhomojen çapraz baglanma"

4. Kimya ve Kimya Mühendisligi Simpozyumu, Haziran 1987, Elazig (B)

Gürün, Ç., Okay, O., "Gözeneklilik - sisme - asili vinil grup iliskileri" (B)

7. Kimya ve Kimya Mühendisligi Simpozyumu, Nisan 1991, Gazimagusa, K.K.T.C.

Okay, O., "Makrogözenekli polimer agyapi kürecikleri" Seminer,
Yildiz Teknik Üniversitesi, 15.04.1993.

Okay, O., "Serbest radikal polimerizasyonu ile agyapi olusum kinetigi" (B)

9. Kimya ve Kimya Mühendisliği Simpozyumu, Ekim 1993, Trabzon.

Naghash, H. J., Okay, O., "Serbest-radikal mekanizma ile agyapi sentezinde halka olusum reaksiyonlari, (B)

10. Ulusal Kimya Kongresi, Eylül 1994, Bursa.

Okay, O., "Polimer Jelleri ve Uygulamalari", Seminer, Kocaeli Üniversitesi, 22.02.1995.

Okay, O., "Mikro- ve makrojeller ve uygulamalari", Seminer, TÜBİTAK Marmara Arastirma Merkezi, Konferans salonu, Nisan 1995.

Küçük, I, Kuyulu, A, Okay, O. "Çapraz bagli polimetilmetakrilat küreciklerinin gözenek yapilarina seyreltici kalitesinin etkisi" (B)

III. Kimya Mühendisliği Sempozyumu, Istanbul Teknik Üniversitesi, Eylül 1996

Akkan, U., and Okay, O., "Poliakrilamid jellerinde kinetik olarak donmus yapilarin incelenmesi" (P) 11. Ulusal Kimya Kongresi, Haziran 1997, 100. Yil Üniv., Van

Balimtas, K. N., and Okay, O., "Poliakrilamid jellerinin sentez sartlari ile özellikleri arasi iliskiler" (P) 11. Ulusal Kimya Kongresi, Haziran 1997, 100. Yil Üniv., Van

Okay, O. 'Serbest-radikal mekanizma ile heterojen agyapilarin olusumu' (B)

12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Durmaz, S., Keskinel, M., and Okay, O., 'Akrilamid, 2-akrilamido-2-metilpropansulfonik asit sodyum tuzu, N,N-metilenbisakrilamidin terpolimerizasyonunda jel olusumunun incelenmesi' (B) 12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Sariisik, S.B., Zor, S.D., and Okay, O., 'Akrilamid ve 2-akrilamido-2-metilpropansulfonik asit sodyum tuzu esasli hidrojellerin su ve tuzlu çözeltilerinde sisme davranislari' (B)

12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Kayaman, N., Okay, O., and Baysal, BM., 'Poliakrilamid jellerinin düz zincirli polimer çözeltilerinde faz geçisleri' (B)

12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Akkan, U. and Okay, O., 'Poliakrilamid jellerinde kinetik olarak donmus yapilarin olusum mekanizmasi' (P) 12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Acir, Z. and Okay, O., 'Stiren/divinilbenzen monomerlerinin serbest-radikal çaprazbag kopolimerizasyonunun jellesme öncesi ve sonrası kinetik simülasyonu' (P)

12. Ulusal Kimya Kongresi, Eylül 1998, Trakya Üniv., Edirne

Sayil, Ç. and Okay, O., "Poly(NIPA) jellerinin sisme davranislari" (S),

13. Ulusal Kimya Kongresi, Eylül 1999, 19 Mayıs Univ., Samsun

Melekaslan, D. and Okay, O., "AAM/AMPS ve AAM/MAPTAC esasli jellerin PEG çözeltilerinde sisme davranislari" (S),

13. Ulusal Kimya Kongresi, Eylül 1999, 19 Mayıs Univ., Samsun

Durmaz, S. and Okay, O., "AAM - AMPS esasli hidrojel: Sentez ve Karakterizasyon" (S), 13. Ulusal Kimya Kongresi, Eylul 1999, 19 Mayıs Univ., Samsun

Melekaslan, D. Okay, O. "Poli(N-İzopropilakrilamid) Jellerinin Reentrant 'Yeniden Dİpme' Davranışy',

14. Ulusal Kimya Kongresi, Eylul 2000, Dicle Univ., Diyarbakır

Durmaz, S, Okay, O, Erman, B., "Poliizobutilen Jellerinin Çözelti İÇinde Sentezleri"

14. Ulusal Kimya Kongresi, Eylul 2000, Dicle Univ., Diyarbakır

Sayı, Ç., Okay, O, "Yüksek Spesifik Yüzey Alanlı Karbon Küreciklerinin Sentezi"

14. Ulusal Kimya Kongresi, Eylul 2000, Dicle Univ., Diyarbakır

Okay, O, "Jellerde spinodal decomposition ve faz diyagramları"

İTÜ Fizik Bölümü Seminarları İubat 2002, İTÜ, İstanbul

Özmen MM, Okay, O, "Sıcaklıda Duyarlı İyonik Poli(N-t- Butilakrilamid-Co- Akrilamid)

Hidrojellerinin Dİpme Özellikleri ve Elastik Davranışy' 17. Ulusal Kimya Kongresi, Eylul 2003, İTÜ, İstanbul

Okay, O, "Polimerik Malzemelerin Bugünü ve Yarını", YapıMalzemesi Kurultayı2003, 8-9

Aralık 2003, Lütfi Kırdar Kongre ve Sergi Sarayı, İstanbul (Davetli Konuşma)

Okay, O, "Polimerik Jeller Araştırma laboratuvarı' Nanoteknoloji ve Nanobiyoteknoloji

Toplantısı 20-21 Aralık 2003, Silivri Klassis Hotel, İstanbul,

Okay, O, "AkıllıMalzemeler" İTÜ Kimya Bölümü Seminarları 13 İubat 2004, İTÜ, İstanbul

Okay, O, "AkıllıMalzemeler" Marmara Üniversitesi, 12 Mayıs 2004, İTÜ, İstanbul

Okay, O, "Jellerde nano ve mikro bölgelerin dizaynı' İTÜ Fizik Bölümü Seminarları 8 Nisan

2005, İTÜ, İstanbul

Okay, O. "Soft and smart materials: Gels" Bilkent Kimya Bölümü Seminarsı 9 Kasım 2005,

Bilkent, Ankara

Okay, O. "Yumuşak ve akıllımalzemeler: Jeller" Kocaeli Üniversitesi Kimya Bölümü

Seminarsı 31 Mart 2006, İzmit, Kocaeli

Okay, O. "Hidrojellerde donmuş konsantrasyon dalgalanmaları" (açık konuşması) 20. Ulusal

Kimya Kongresi, Eylul 2006, Erciyes Üniversitesi, Kayseri