

PUBLICATIONS

A. Refereed Publications in Journals

1. Radovic, L.R., Tasic, A.Z., Grozdanic, D.K., Djordjevic, B.D., and Valent, V.J., "Computer Design and Analysis of Operation of a Multiple-Effect Evaporator System in the Sugar Industry," *Ind. Eng. Chem. Process Des. Dev.* **18**, 318 (1979).
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3. Radovic, L.R., Walker, P.L., Jr., and Jenkins, R.G., "Importance of Catalyst Dispersion in the Gasification of Lignite Chars," *J. Catal.* **82**, 382 (1983).
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5. Radovic, L.R., and Walker, P.L., Jr., "Reactivities of Chars Obtained as Residues in Selected Coal Conversion Processes," *Fuel Process. Technol.* **8**, 149 (1984).
6. Radovic, L.R., Walker, P.L., Jr., and Jenkins, R.G., "Catalytic Coal Gasification: Use of Calcium vs. Potassium," *Fuel* **63**, 1028 (1984).
7. Radovic, L.R., Steczko, K., Walker, P.L., Jr., and Jenkins, R.G., "Combined Effects of Inorganic Constituents and Pyrolysis Conditions on the Gasification Reactivity of Coal Chars," *Fuel Process. Technol.* **10**, 311 (1985).
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10. Radovic, L.R. and Vannice, M.A., "Sulfur Tolerance of Methanol Synthesis Catalysts: Modelling of Catalyst Deactivation," *Appl. Catal.* **29**, 1 (1987).
11. Lizzio, A.A., Piotrowski, A., and Radovic, L.R., "Effect of Oxygen Chemisorption on Char Gasification Reactivity Profiles Obtained by Thermogravimetric Analysis," *Fuel* **67**, 1691 (1988).
12. Lizzio, A.A., Jiang, H., and Radovic, L.R., "On the Kinetics of Carbon (Char) Gasification: Reconciling Models with Experiments," *Carbon* **28**, 7 (1990).
13. Solar, J.M., Leon y Leon, C.A., Osseo-Asare, K., and Radovic, L.R., "The Importance of Electrokinetic Properties of Carbons for Their Use as Catalyst Supports," *Carbon* **28**, 369 (1990).
14. Gorrini, B.C., Radovic, L.R., and Gordon, A.L., "On the Potassium-Catalyzed Gasification of a Chilean Bituminous Coal," *Fuel* **69**, 789 (1990).

15. Solar, J.M., de Beer, V.H.J., Derbyshire, F.J., and Radovic, L.R., "Effects of Surface and Structural Properties of Carbons on the Behavior of Carbon-Supported Molybdenum Catalysts," *J. Catal.* **129**, 330 (1991).
16. Radovic, L.R., Jiang, H., and Lizzio, A.A., "A Transient Kinetics Study of Char Gasification in Carbon Dioxide and Oxygen," *Energy Fuels* **5**, 68 (1991).
17. Lizzio, A.A. and Radovic, L.R., "A Transient Kinetics Study of Catalytic Char Gasification in Carbon Dioxide," *I&EC Research* **30**, 1735 (1991).
18. Radovic, L.R., "Importance of Carbon Active Sites in the Gasification of Coal Chars - Eight Years Later," *Carbon* **29**, 809 (1991).
19. Calemma, V. and Radovic, L.R., "On the Gasification Reactivity of Italian Sulcis Coal," *Fuel* **70**, 1027 (1991).
20. Leon y Leon, C.A., Scaroni, A.W., and Radovic, L.R., "Physicochemical Characterization of Carbon-Coated Alumina," *J. Colloid Interf. Sci.* **148**, 1 (1992).
21. Cordero, T., Thrower, P.A., and Radovic, L.R., "On the Oxidation Resistance of Carbon/Carbon Composites Obtained by Chemical Vapor Infiltration of Different Carbon Cloths," *Carbon* **30**, 365 (1992).
22. Leon y Leon, C.A., Solar, J.M., Calemma, V., and Radovic, L.R., "Evidence for the Protonation of Basal Plane Sites on Carbon," *Carbon* **30**, 797 (1992).
23. Kyotani, T., Yamada, H., Yamashita, H., Tomita, A., and Radovic, L.R., "Use of Transient Kinetics and Temperature-Programmed Desorption to Predict Carbon/Char Reactivity: The Case of Cu-Catalyzed Gasification of Coal Char in Oxygen," *Energy Fuels* **6**, 865 (1992).
24. Yamashita, H., Yamada, H., Kyotani, T., Tomita, A., and Radovic, L.R., "Influence of Char Surface Chemistry on the Reduction of Nitric Oxide with Chars," *Energy Fuels* **7**, 85 (1993).
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33. Rodriguez-Mirasol, J., Thrower, P.A., and Radovic, L.R., "On the Oxidation Resistance of Carbon/Carbon Composites: Importance of Fiber Structure for Composite Reactivity." *Carbon* **33**, 545 (1995).
34. Illán-Gómez, M.J., Linares-Solano, A., Radovic, L.R., and Salinas-Martínez de Lecea, C., "NO Reduction by Activated Carbons. 5. Catalytic Effect of Iron." *Energy Fuels* **9**, 540 (1995).
35. Illán-Gómez, M.J., Linares-Solano, A., Radovic, L.R., and Salinas-Martínez de Lecea, C., "NO Reduction by Activated Carbons. 7. Some Mechanistic Aspects of Uncatalyzed and Catalyzed Reaction." *Energy Fuels* **10**, 158 (1996).
36. Vittal, M., Osseo-Asare, K., and Radovic, L.R., "Coal Liquefaction Catalyzed by Microemulsion-Mediated Molybdenum Sulfide Particles," *Fuel*, in preparation (2005).
37. Radovic, L.R., Silva, I.F., Ume, J.I., Menéndez, J.A., Leon y Leon, C.A. and Scaroni, A.W., "An Experimental and Theoretical Study of the Adsorption of Aromatics Possessing Electron-Withdrawing and Electron-Donating Functional Groups by Chemically Modified Activated Carbons," *Carbon* **35**, 1339 (1997).
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39. Tao, T., Vannice, M.A., Kyotani, T., Tomita, A. and Radovic, L.R., "Coking and Regeneration of Y Zeolite Catalysts. Effect of Cation Type," *J. Catal.*, in preparation (2005).
40. Tao, T., Vannice, M.A., Kyotani, T., Tomita, A. and Radovic, L.R., "Kinetics of Coke Removal from Ion-Exchanged Y Zeolite Catalysts. Effect of Cation Concentration," *J. Catal.*, in preparation (2005).
41. Tao, T., Vannice, M.A., Kyotani, T., Tomita, A. and Radovic, L.R., "Kinetics of Regeneration of Coked Y Zeolite Catalysts. Comparison with Carbon (Char) Gasification," *I&EC Research*, in preparation (2005).
42. Radovic, L.R., Ume, J.I. and Scaroni, A.W., "On Tailoring the Surface Chemistry of Activated Carbon for Their Use in Purification of Aqueous Effluents," in "Fundamentals of Adsorption" (M.D. LeVan, Ed.), Kluwer Academic Publishers, Boston, 1996, p. 749.
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47. Radovic, L.R., "Carbon Materials as Adsorbents, Reactants and Catalyst Supports: Some Examples of Remarkable Flexibility and a Suggestion of Macroscopic Complementarity," *Hemijaska Industrija* **50** (Chemical Industry, Belgrade, Yugoslavia), 225 (1996).
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49. Menéndez, J.A., Radovic, L.R., Xia, B. and Phillips, J., "Low-Temperature Generation of Basic Carbon Surfaces by Hydrogen Spillover." *J. Phys. Chem.* **100**, 17243 (1996).
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56. Quli, F.A., Thrower, P.A. and Radovic, L.R., "Effects of the Substrate on Deposit Structure and Reactivity in the Chemical Vapor Deposition of Carbon," *Carbon* **36**, 1623 (1998).
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58. Radovic, L.R., "Adsorption of Organics from Aqueous Solution on Surface-Modified Active Carbons: A Critical Review," *TANSO* No.185 (Japan), 326 (1998).

59. Radovic, L.R. and Lu, G.Q., "A Problem-Based Course on Air Pollution Control: An Attempt to Bridge the Gap Between Teaching and Learning," in preparation, *Chem. Eng. Educ.* (2005).
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66. Radovic, L.R., "On traditions, international cooperation and literature citations," TANSO No. 189 (Japan), 2002.
67. Mazyck, D.M., Cannon, F.S., Bach, M.T. and Radovic, L.R., "The role of calcium in high pH excursions for reactivated GAC," *Carbon* **43**, 511 (2005).
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B. Books

1. Radovic, L.R. and Schobert, H.H., "Energy and Fuels in Society," McGraw-Hill (College Custom Series), 1992, 422 pages.
2. Radovic, L.R., "Energy and Fuels in Society: Analysis of Bills and Media Reports," McGraw-Hill (College Custom Series), 1997, 484 pages; web edition (continuously updated): www.ems.psu.edu/~radovic/matsc101.html.
3. Thrower, P.A. and Radovic, L.R. (Editors), "Chemistry and Physics of Carbon," Vol. 26, Marcel Dekker, New York, 1999, 341 pages.
4. Radovic, L.R. (Editor), "Chemistry and Physics of Carbon," Vol. 27, Marcel Dekker, New York, 2001, 416 pages.
5. Radovic, L.R. (Editor), "Chemistry and Physics of Carbon," Vol. 28, Marcel Dekker, New York, 2003, 335 pages.
6. Radovic, L.R. (Editor), "Chemistry and Physics of Carbon," Vol. 29, Marcel Dekker, New York, 2004, 423 pages.
7. Radovic, L.R. (Editor), "Chemistry and Physics of Carbon," Vol. 30, Marcel Dekker, New York, 2005, in preparation.

C. Refereed Chapters in Books

1. Scaroni, A.W., Khan, M.R., Eser, S. and Radovic, L.R., "Coal Pyrolysis," in *Ullmann's Encyclopedia of Industrial Chemistry*, Vol. A7, VCH Verlagsgesellschaft, Weinheim, F.R. Germany, 1986, pp. 245-280.
2. Radovic, L.R., Lizzio, A.A. and Jiang, H., "Reactive Surface Area: An Old but New Concept in Carbon Gasification," in *Fundamental Issues in Control of Carbon Gasification Reactivity* (J. Lahaye and P. Ehrburger, Eds.), NATO ASI Series, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1991, pp. 235-255.
3. Marsh H. and Radovic, L.R., "The Active Surface Area Concept as Applied to Carbon Gasification," in *Fundamental Issues in Control of Carbon Gasification Reactivity* (J.

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4. Leon y Leon, C.A. and Radovic, L.R., "Interfacial Chemistry and Electrochemistry of Carbon Surfaces," in *Chemistry and Physics of Carbon*, Vol. 24 (P.A. Throver, Ed.), Marcel Dekker, New York, 1994, pp. 213-310.
5. Radovic, L.R. and Sudhakar, C., "Carbon as a Catalyst Support. Production, properties and applications," in *Introduction to Carbon Technologies* (H. Marsh, E. A. Heintz and F. Rodriguez-Reinoso, Eds.), University of Alicante Press, Alicante, Spain, 1997, pp. 103-165.
6. Radovic, L.R. and Rodríguez-Reinoso, F., "Carbon Materials in Catalysis," in *Chemistry and Physics of Carbon*, Vol. 25 (P.A. Throver, Ed.), Marcel Dekker, New York, 1997, pp. 243-358.
7. Radovic, L.R., Moreno-Castilla, C. and Rivera-Utrilla, J., "Carbon Materials as Adsorbents in Aqueous Solutions," in *Chemistry and Physics of Carbon*, Vol. 27 (L. R. Radovic, Ed.), Marcel Dekker, New York, 2001, pp. 227-405.
8. Radovic, L.R., "Surface Chemistry of Activated Carbon Materials: State of the Art and Implications for Adsorption," in *Surfaces of Nanoparticles and Porous Materials* (J. A. Schwarz and C. J. Contescu, Eds.), Marcel Dekker, 1999, pp. 529-565.
9. Radovic, L.R., "Carbon and Graphite Reactivity," in *Encyclopedia of Materials: Science and Technology* (Buschow, K.H.J, Cahn, R.W., Flemings, M.C., Ilschner, B., Kramer, E.J. and Mahajan, S., Eds.), Pergamon Press, 2001.
10. Moore, B.C., Mazyck, D.M., Cannon, F.C. and Radovic, L.R., "Carbon Materials as Adsorbents of Natural Organic Matter," in *Chemistry and Physics of Carbon*, Vol. 30 (L. R. Radovic, Ed.), Marcel Dekker, New York, in preparation.
11. Radovic, L.R., Pereira, M.F., Diaz, J.J. and Figueiredo, J.L., "Catalytic Properties and Behavior of Carbon Materials," in *Chemistry and Physics of Carbon*, Vol. 30 (L. R. Radovic, Ed.), Marcel Dekker, New York, in preparation.

D. Computer/Internet Software

1. Radovic, L.R., "Energy and Fuels in Society," HyperCard, HTML and WWW (pdf) instructional programs, to accompany Ref. B2.

E. Patents

1. Phillips, J., Menéndez, J.A. and Radovic, L.R., "Process for Low Temperature Generation of Basic-Type Carbon Surfaces", PSU Invention Disclosure No. 96-1578, March 1996.

F. Presentations at Conferences, Symposia, etc.

1. Ref. A1, CHISA International Conference on Chemical Engineering, Prague, Czechoslovakia, 1978.
2. Ref. A2, International Symposium "Fundamentals of Catalytic Coal and Carbon Gasification," Amsterdam, The Netherlands, 1982.
3. Radovic, L.R., Walker, P.L., Jr. and Jenkins R.G., "Importance of Active Sites in Coal Char and Carbon Gasification," ACS National Meeting, Seattle, March 1983. *ACS Preprints (Fuel Chemistry Division)* **28** (1), 75 (1983).
4. Ref. A6, Tenth Interamerican Congress of Chemical Engineering, Santiago, Chile, 1983.
5. Radovic, L.R., Walker, P.L., Jr. and Jenkins, R.G., "Roles of Catalysis and Carbon Active Sites in the Gasification of Lignite Chars," International Gas Research Conference, Washington, D.C., 1984.
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7. Ref. A10, ACS Meeting, Colloid and Surface Chemistry Division, New York City, April 1986.
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12. Lizzio, A.A. and Radovic, L.R., "Temperature-Programmed Desorption Studies of Coal Char Gasification," ACS National Meeting, Dallas, April 1989. *ACS Preprints (Fuel Chemistry Division)* **34** (1), 102 (1989).
13. Solar, J.M., de Beer, V.H.J., Derbyshire, F.J., Scaroni, A.W., Osseo-Asare, K. and Radovic, L.R., "Effect of Carbon Surface Properties on the Behavior of Supported Molybdenum Catalysts," 19th Biennial Conference on Carbon, University Park, PA, 1989.
14. Lizzio, A.A. and Radovic, L.R., "On the Usefulness of Total Surface Area for Predicting Carbon Gasification Reactivity Profiles: A Reassessment," 19th Biennial Conference on Carbon, University Park, PA, 1989.
15. Leon y Leon, C.A. and Radovic, L.R., "Catalyst Preparation Using Surface-Oxidized Carbon as Support," 19th Biennial Conference on Carbon, University Park, PA, 1989.
16. Radovic, L.R. and Leon y Leon, C.A., "Carbon as a Catalyst Support - Review of a Neglected Issue," 19th Biennial Conference on Carbon, University Park, PA, 1989.

17. Radovic, L.R., Lizzio, A.A. and Jiang, H., "New Insights into Carbon Gasification Obtained by Temperature Programmed Desorption and Transient Kinetics," 19th Biennial Conference on Carbon, University Park, PA, 1989.
18. Leon y Leon, C.A., Lizzio, A.A. and Radovic, L.R., "On the Chemical Characterization of Porous Carbon Surfaces," 1990 International Carbon Conference, Paris, France.
19. Leon y Leon, C.A. and Radovic, L.R., "Bubble Evolution from Carbon Particles Immersed in Liquids," 1990 International Carbon Conference, Paris, France.
20. Leon y Leon, C.A. and Radovic, L.R., "Carbon Reactivity as a Measure of Copper Dispersion," 1990 International Carbon Conference, Paris, France.
21. Carrasco-Marin, F., Solar, J.M. and Radovic, L.R., "On the Importance of Electrokinetic Properties of Carbon for the Gasification Reactivity of Carbon-Supported Palladium Catalysts," 1990 International Carbon Conference, Paris, France.
22. Lizzio, A.A. and Radovic, L.R., "The Concept of Reactive Surface Area Applied to Catalyzed Char Gasification in Carbon Dioxide," 1990 International Carbon Conference, Paris, France.
23. Lizzio, A.A., Jiang, H. and Radovic, L.R., "The Concept of Reactive Surface Area Applied to Uncatalyzed Char Gasification in Carbon Dioxide and Oxygen," 1990 International Carbon Conference, Paris, France.
24. Lizzio, A.A., Jiang, H. and Radovic, L.R., "Temperature-Programmed Desorption and Transient Kinetics Studies of Carbon Gasification," 1990 AIChE Annual Meeting, Chicago.
25. Solar, J.M., de Beer, V.H.J., Derbyshire, F.J. and Radovic, L.R., "Effects of Surface and Structural Properties of Carbons on the Behavior of Carbon-Supported Molybdenum Catalysts," 1990 AIChE Annual Meeting, Chicago.
26. Leon y Leon, C.A., Calemma, V. and Radovic, L.R., "Surface Chemical Heterogeneity of Oxidized Carbon Particles," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.
27. Leon y Leon, C.A. and Radovic, L.R., "Enhancing Catalyst Dispersion on Carbon Supports," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.
28. Leon y Leon, C.A. and Radovic, L.R., "Support Effects in Catalyzed Carbon Gasification," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.
29. Leon y Leon, C.A. and Radovic, L.R., "Origin of Structure Sensitivity in Catalyzed Carbon Gasification," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.
30. Cordero-Alcantara, T., Thrower, P.A. and Radovic, L.R., "On the Oxidation Resistance of C/C Composites Obtained by Chemical Vapor Infiltration of Different Carbon Cloths," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.
31. Calemma, V. and Radovic, L.R., "On the Gasification Reactivity of Italian Sulcis Coal," 20th Biennial Conference on Carbon, Santa Barbara, CA, 1991.

32. Leon y Leon, C.A. and Radovic, L.R., "Characterization of Carbon-Supported Metals via Gasification in Air," Twelfth North American Meeting of the Catalysis Society, Lexington, KY, 1991.
33. Leon y Leon, C.A. and Radovic, L.R., "Effect of Thermal and Chemical Pretreatments on the Copper-Catalyzed Gasification of Carbon in Air," ACS National Meeting, New York City, August 1991.
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91. Quli, F.A., Radovic, L.R. and Thrower, P.A., "Effects of the Substrate on Deposit Structure and Reactivity in the Chemical Vapor Deposition (CVD) of Carbon," International Symposium Carbon'98, Tokyo, November 1998.
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94. Radovic, L.R., "Outstanding Fundamental Issues in the Adsorption of Water Pollutants on Activated Carbons," invited lecture at the Post-Symposium on Carbon'98, Kyoto, November 1998.
95. Radovic, L.R., "The Role of Surface Chemistry in Adsorption on Activated Carbons," International Symposium on Functional Materials, Fukuoka, Japan, November 1998.
96. Radovic, L.R., "Coal Char Combustion: Where and how is the surface chemistry important?" Mediterranean Combustion Symposium, Antalya, Turkey, June 1999.
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104. Radovic, L.R., "On Diffusion in Coal, in Polymers and in Tennis!," Symposium in Honor of Larry Duda, ACS National Meeting, San Francisco, March 2000.
105. Zannoni, I., Weigle, J., Phillips, J. and Radovic, L.R., "On the feasibility of CO₂ sequestration in coal mines: Comparison of heats of adsorption of CO₂ and CH₄," The 2nd Pacific Basin Conference on Adsorption Science and Technology, Brisbane, Australia, May 2000.
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109. Radovic, L.R., "A Landmark Paper on Carbon-Supported Catalysts: the Real Story Revealed by the Science Citation Index," 220th National Meeting of the American Chemical Society, Division of Fuel Chemistry (Symposium in Memory of Frank Derbyshire), Washington, DC, August 2000.
110. Hatori, H., Radovic, L.R. and Adzic, R.R., "Electrochemical Activity of Pt Supported on Carbon Black," 25th Biennial Conference on Carbon, Lexington, KY, July 2001.
111. Mazyck, D.M., Cannon, F.S. and Radovic, L.R., "pH Excursions in Water Treatment Following the Installation of Reactivated GAC: Causation and Control," 25th Biennial Conference on Carbon, Lexington, KY, July 2001.
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120. Radovic, L.R., "Adsorption on Activated Carbon from the Aqueous Phase," U.S.-Korea Workshop, "Advanced Applications for Carbon Materials," Jeju Island, Korea, September 2002.
121. Radovic, L.R., "Adsorption from Aqueous Solution on Activated Carbons: Do we now have a predictive theory?" Japanese Adsorption Society Meeting, Matsumoto, Nagano Prefecture, October 2002.
122. Radovic, L.R., "Opportunities for Novel Carbon Materials in Biomedical Applications," Materials Day Poster Session, Penn State University, April 2003.
123. Radovic, L.R., "Carbon as a Fuel and as a Material: Clean Energy and Clean Environment," 3rd Asia Pacific Conference on Sustainable Energy and Environmental Technology, Yokkaichi (Mie Prefecture), Japan, May 2003.
124. Radovic, L.R., "Carbon, an Old But New Material: 50 Years Later," Plenary Lecture at Carbon 2003 International Conference, Oviedo, Spain, July 2003.
125. Radovic, L.R., "Carbon Materials in Catalysis," Symposium on New Frontiers in Carbon Materials, Alicante, Spain, July 2003.
126. Radovic, L.R., "Coal-derived Premium Carbon Products: Opportunities and Challenges," VI Congreso Nacional de Ciencia y Tecnología del Carbón, Medellín, Colombia, August 2003.
127. Radovic, L.R., "Environmental Applications of Carbon Materials: Success Stories and New Challenges," 4th European Congress of Chemical Engineering, Granada, Spain, September 2003.
128. Radovic, L.R., "The Role of Iodine in Carbon Science and Technology," 6th Symposium on Iodine Utilization, Chiba University, Chiba, Japan, October 2003.
129. Radovic, L.R., "Synergistic Aspects of the Three C's (Coal, Carbon, Catalysis): Some Examples from the Penn State/Tohoku Connection," Symposium in Celebration of Retirement of Prof. Akira Tomita, Sendai, Japan, May 2004.

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131. Radovic, L.R. "Molecular modeling of carbon reactions: some effects of surface chemistry and gaseous reactant," International Conference Carbon 2004, Providence, RI, July 2004.
132. Radovic, L.R. "Advanced carbon materials for a healthier environment: from fundamentals to applications," International Conference of Southeastern European Chemical Societies ICOSECS 2004, Belgrade, Serbia and Montenegro, July 2004.
133. Radovic, L.R. "Quantum chemistry of adsorption and desorption processes on carbon surfaces," XXIX Iberic Adsorption Meeting, Porto, Portugal, September 2004.
134. Radovic, L.R. "Carbon surface chemistry: experimental impact and theoretical challenges," 6th International Conference on Nanotechnology in Carbon (NanoteC'04), Batz-sur-Mer, France, October 2004.
135. Radovic, L.R. "Coal in the 21st century: more efficient electricity, cleaner environment and advanced materials," International Conference "Power Plants 2004", Vrnjacka Banja, Serbia and Montenegro, November 2004.
136. Radovic, L.R. "Surface functionalization of sp² carbons by oxygen-containing gases: theoretical analysis and reconciliation with experimental facts," International Symposium on Nanocarbons 2004, Nagano, Japan, November 2004.
137. Radovic, L.R. "Carbon surface chemistry: experimental legacy of B. R. Puri and computational challenges and applications for the 21st century," International Workshop "Carbon Materials for Energy Applications," New Delhi, India, November 2004.

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