

CURRICULUM VITÆ

Benjamin Scharifker

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PERSONAL DATA

Name: Benjamin Ruben Scharifker Podolsky
Born: Buenos Aires, Argentina, 21 September 1953
Nationality: Venezuela and Argentina
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EDUCATION

1970 Baccalaureate in Sciences, Colegio Moral y Luces, Caracas.
1976 Licentiate in Chemistry, Universidad Simon Bolívar (USB), Caracas.
1979 Ph.D. (Physical Chemistry and Electrochemistry), University of Southampton, U.K.
Thesis: "Nucleation and phase formation" (*Advisor:* Prof. Graham Hills).
1980 Post-doctoral studies, University of Southampton. (*Advisor:* Dr. Laurence M. Peter)

SCHOLARSHIPS AND AWARDS

1976-1979 National Fund for Research in hydrocarbons (Venezuela), doctoral studies.
1979-1980 Science Research Council, U.K., post-doctoral studies.
1986 Tajima Prize, International Society of Electrochemistry.
1988 Andres Bello Prize in Fundamental Sciences [*J. Electroanal. Chem.*, 240, 61 (1988)] USB.
1989 Francisco Torrealba Prize for research achievements, USB.
1990-2012 Researcher, levels III & IV, Program for Promotion of Researchers, Venezuela.
1991 Prize for published work in Chemistry [*J. Electroanal. Chem.*, 300, 85 (1991)] National Research Council (CONICIT).
1993 Lorenzo Mendoza Fleury Prize, Polar Foundation.
1996 Andres Bello Prize in Biological and Chemical Sciences [*J. Electroanal. Chem.*, 383, 37 (1995)] USB.
1998 Corresponding member, National Academy of Physical, Mathematical and Natural Sciences.
2003 Member, National Academy of Physical, Mathematical and Natural Sciences.

2003	Member, Latin American Academy of Sciences
2008	City of Baruta Award, Miranda State, Venezuela
2009	Fellow, The World Academy of Sciences (TWAS)
2012	Exemplary Citizen Award, Metropolitan Mayor of Caracas
2014	“Lanzas Coloradas” Award, Casa Uslar Pietri Foundation, Caracas
2014	Ernesto Mayz Vallenilla Award, Universidad Simon Bolívar, Caracas
2016	Commemorative Medal “Bicentennial of the death of Generalissimo Francisco de Miranda”
2017	Simón Bolívar Prize for University achievements, USB

TEACHING AND RESEARCH APPOINTMENTS

1976	Instructor, Simon Bolivar University, Venezuela.
1977-1980	Instructor, Course on Advanced Techniques in Electrochemistry, University of Southampton, UK.
1979-1980	Research fellow, University of Southampton.
1980-1984	Aggregate professor, Simon Bolivar University.
1984-1986	Senior scientist, Hydrogen Research Center, Texas A&M University, USA
1984-1989	Associate professor, Simon Bolivar University.
1988	Visiting professor, University of Southampton.
1989-2012	Professor, Simon Bolivar University.
2009	Benjamin Meaker Visiting Professor, Institute for Advanced Studies, University of Bristol, UK.
Since 2012	Professor emeritus, Simon Bolivar University.

ADMINISTRATION

1981-1984	Head of Physical Chemistry Laboratory, Simon Bolivar University.
1982-1984	Head of Physical Chemistry Section, Simon Bolivar University.
1984-1986	Assistant Director, Hydrogen Research Center, Texas A&M University.
1984-1988	Vice-president, Friends of the Air Foundation, Houston, Texas
1986-1987	Head of Physical Chemistry Laboratory, Simon Bolivar University.
1987-1989	Head of Chemistry Department, Simon Bolivar University.
1989-1994	Coordinator for Fine Chemistry, Inter-American Development Bank–CONICIT program.
1991-1994	President, Venezuelan Society of Electrochemistry.
1992-1996	Dean of Research and Development, Simon Bolivar University.
1994-1999	Director at large, National Research Council (CONICIT).
2000-2003	Director at large, Venezuelan Foundation for Promotion of Researchers.
2001-2005	Vice Rector for Administration, Simon Bolivar University.
2005-2009	1 st Vice-President, Academy of Physical, Mathematical and Natural Sciences.

2005-2009	Rector, Simon Bolivar University.
2009-2011	President, Academy of Physical, Mathematical and Natural Sciences of Venezuela.
2010-2011	Academic Vice-Rector, Metropolitan University, Caracas
Since 2011	Rector, Metropolitan University, Caracas

BOARDS AND COMMITTEES

1983-1985	Technical Committee in Chemical Sciences, CONICIT.
Since 1984	Editorial Board, Portugaliae Electrochimica Acta.
1987-1988	Organization Secretary, Venezuelan Society of Electrochemistry.
1987-1989	President, Galilean Society, Simon Bolivar University.
1987-1993	Member of Superior Council, Simon Bolivar University.
1989-1993	Vice-president, Galilean Society, Simon Bolivar University.
1990-1991	Secretary for Academic Affairs, Professors Association, Simon Bolivar University.
1990-1991	Research and Development Council, Simon Bolivar University.
1990-1996	Committee for Physical, Mathematical and Chemical Sciences, Program for Promotion of Researchers.
1991-1992	Board Member, Program for Promotion of Researchers.
1991-1993	President, Technical Committee in Chemical Sciences, CONICIT.
Since 1992	Field Editor (Chemistry), Acta Científica Venezolana.
1994-1996	General Coordinator of Scientific, Humanistic and Technological Development Councils of National Universities, National Council of Universities.
1994-1999	National Secretary, International Society of Electrochemistry.
1994-2003	Local Representative in Venezuela, Royal Society of Chemistry.
1994-1999	Member of Superior Council, National Research Council, CONICIT.
1995	President of Organizing Committee, 45 th Annual Convention of Venezuelan Association for the Advancement of Science, Caracas.
1996-1998	Member of General Council, International Institute for Advanced Study, Caracas.
1996	Member of Organizing Committee, 12 th Ibero-American Electrochemistry Congress, Mérida.
1997	Invited Editor, <i>J. Braz. Chem. Soc.</i> 8(2), 91-196 (1997).
1998-2000	Member of Superior Council, Simon Bolivar University.
Since 1999	Editorial Committee, Latin American Journal of Chemistry.
2001	Secretary General Caracas Chapter, Venezuelan Association for the Advancement of Science.
2001-2003	Member of Board, Venezuelan Association for the Advancement of Science.
2002-2004	Publication Committee, International Society of Electrochemistry
2004-2005	Coordinator of working group of Vice Rectors for Administration, National Council of Universities.
Since 2010	Editorial Board, International Journal of Electrochemistry

Since 2010 Member of the Board, Assembly for Education, Caracas
Since 2013 Secretary of the Board, Venezuelan Association of University Rectors

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Academy of Physical, Mathematical and Natural Sciences, Galilean Society, International Society of Electrochemistry, Royal Society of Chemistry, The Electrochemical Society, Venezuelan Association for the Advancement of Science, Venezuelan Association of Chemistry, Venezuelan Society of Electrochemistry.

RESEARCH INTERESTS

Nucleation and phase formation. Electrocrystallization. Energy conversion and clean energies. Interfacial electrochemical reactions. Electrocatalysis. Conducting polymers. Adsorption at solid-liquid interphases. Ultramicroelectrodes.

JOURNAL REVIEWER

Acta Científica Venezolana. Analytical Chemistry. Avances en Química. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. Chemical Science. ChemElectroChem. ChemPhysChem. Ciencia. Electrochemistry Communications. Electrochemical and Solid State Letters. Electrochimica Acta. Interciencia. International Journal of Electrochemistry. Journal of Applied Electrochemistry. Journal of Colloid and Interface Science. Journal of Electroanalytical Chemistry. Journal of Solid State Chemistry. Journal of the Brazilian Chemical Society. Journal of the Electrochemical Society. Journal of the Mexican Chemical Society. Journal of Physical Chemistry. Langmuir. Materials Chemistry and Physics. Polymer. Portugaliae Electrochimica Acta. Revista de la Facultad de Ingeniería-UCV. Revista Latinoamericana de Metalurgia y Materiales. Revista de la Sociedad Venezolana de Química. Revista Técnica de Ingeniería LUZ. Solid State Ionics. Surface and Coatings Technology. Universidad, Ciencia y Tecnología. Thin Solid Films. Water Research.

DISSERTATIONS OF RESEARCH STUDENTS

1. J.D. Reid, *Galvanostatic studies of anodic film growth*, BSc. (Chem.), University of Southampton, 1979.
2. R.J. Rugeles, *Electrocrystallization of copper sulphide on copper*, Licentiate (Lic). Chem., USB, 1982.
3. M.E. Marmodoro, *Lead deposition onto single crystals and polycrystalline silver in the presence of halides*, Lic. Chem., USB, 1982.
4. J. Mostany, *Studies on three-dimensional nucleation*, Lic. Chem., USB, 1982.
5. Z.M. Ferreira, *Electrodeposition of lead sulphide*, Lic. Chem., USB, 1983.
6. C.A. Benucci, *Study on the formation of two-dimensional phases during sulphide adsorption on mercury*, Lic. Chem., USB, 1984.
7. J. Parra, *Effect of halogenides on the electrodeposition of lead onto vitreous carbon*, Lic. Chem., USB, 1984.
8. L. Milgram, *Electrodeposition of cadmium sulphide*, Lic. Chem., USB, 1984.
9. G.C. Wehrmann, *Study of viologen reduction processes*, Lic. Chem., USB, 1984.
10. N. Kasrin, *Effects of halides and pH on the formation and reduction of iridium oxide films*, Lic. Chem., USB, 1984.
11. D.C. Alonzo, *Some structural and electrocatalytic aspects of metal adatoms on platinum*, Lic. Chem., USB, 1988.

12. A. Leone, *Synthesis, characterization and electrocatalytic applications of polyaniline thin films*, Lic. Chem., USB, 1989.
13. W. Marino, *Electrochemical formation and growth of polypyrrole films and their modification with metal particles*, Lic. Chem., USB, 1990.
14. C.L. Ferro, *Microcalorimetric studies of the electrochemical double layer*, Lic. Chem., USB, 1990.
15. A. Serruya, *In-situ microscopic study of the spatial distribution of nuclei on electrodes and the kinetics of nucleation*, Lic. Chem., USB, 1992.
16. D. Fermín, *Mechanism of the electrochemical formation of polypyrrole films in aqueous media*, Lic. Chem., USB, 1992.
17. O. Yépez, *Studies on the electrochemical oxidation of one-carbon species*, Dr. Chem., USB, 1995.
18. J. Mostany, *Study of conducting metal and polymer phases on electrodes*, Dr. Chem., USB, 1995.
19. P. Ferreiro, *Synthesis and characterization of conducting polymers applied to secondary batteries*, Mater. Eng., USB, 1996.
20. A. Serruya, *Kinetic study of electrochemical nucleation and spatial distribution of Ag, Hg, Tl and Pb nuclei*, MSc. Chem., USB, 1997.
21. O. Mejías, *Microgravimetric study of the redox process of polypyrrole films*, Lic. Chem., USB, 1997.
22. E. Bastidas and D. Prince, *Study on the physical properties of polypyrrole and polypyrrole/polypropylene composites*, Mater. Eng., USB, 1997.
23. R. Arena, *CO₂ corrosion of carbon steels evaluated with electrochemical impedance using rotating cylinders*, MSc. Chem., USB, 1998.
24. I. Medina, *Hydrodesulfuration of model molecules using microwaves as heating source*, Lic. Chem., USB, 1998.
25. Y. Zucaro, *Characterization of polypyrrole-polyacrylamide mixtures*, MSc. Chem., USB, 1999.
26. J.C. Chesneau, L. Martínez and A. Montero, *Characterization of a pump-type flow reactor for electrolysis of emulsions*, Chem. Eng., USB, 1999.
27. M. Méndez, *Flow rate effects on the protecting properties of crude oils against CO₂ corrosion*, Lic. Chem., USB, 2001.
28. I. Suárez, *Kinetic study of electrochemical microstructures*, Dr. Chem., USB, 2001.
29. R. Buceta, *Study of adsorption enthalpies of hydrogen on platinum in aqueous media*, Lic. Chem., USB, 2002.
30. M.E. Vicioso, *In situ IR spectroelectrochemical study of thiourea and thiocyanate electrooxidation on platinum, gold and copper*, MSc. Chem., USB, 2004.
31. D. Mazaira, *The potentiostatic current transient for nucleation with diffusion-controlled growth. Hierarchical overlap model*, Lic. Chem., USB, 2006.
32. D. Branco, *The potentiostatic transient for electrochemical nucleation with diffusion controlled growth of spherical caps*, Lic. Chem., USB, 2008.
33. R. Arenare, *Electrochemical characterization of solid oxide fuel cells*, Dr. Chem., USB, 2009.
34. O. Díaz, *Electrochemical formation of bimetallic phases*, M.Sc. Chem., USB, 2011.
35. S. Blanco, *Metal nanowires: synthesis, characterization and application to the development of sensors*, Dr. Eng., USB, 2014.
36. C. Hidalgo, *Study of the electrodeposition of silver-palladium bimetallic phases*, Lic. Chem., USB, 2014.

TECHNICAL REPORTS AND MONOGRAPHS

1. Electrochemical three-dimensional multiple nucleation, B.R. Scharifker, *Associate Professor Dissertation*, Simon Bolivar University, 131 pp. (1983).
2. Nucleation and phase formation on electrodes, B.R. Scharifker, *Final Report, CONICIT Grant No. S1-1227*, Caracas, 208 pp. (1985).
3. Theoretical and experimental aspects of microelectrodes, B.R. Scharifker, *Full Professor Dissertation*, Simon Bolivar University, 105 pp. (1988).
4. Direct conversion of methane. Electrochemical conversion of methane to methanol: Pt as electrode, M.M. Ramírez de Agudelo, B. Scharifker, J. Salazar, M. Milo, O. Yépez and A. Pedraza, *Technical Report INT-02013,88*, PDVSA-Intevep, 33 pp. (1988).
5. Direct conversion of methane. Electrochemical conversion of methane to methanol: Effects of adatoms on Pt, M.M. Ramírez de Agudelo, B. Scharifker, J. Salazar, M. Milo and D. Alonso, *Technical Report INT-02014, 88*, PDVSA-Intevep, 26 pp. (1988).
6. Direct conversion of methane. Electrochemical conversion of methane to methanol: Palladium as electrode, M.M. Ramírez de Agudelo, B. Scharifker, J. Salazar, M. Milo, O. Yépez and J.C. De Jesus, *Technical Report INT-02015,88*, PDVSA-Intevep, 34 pp. (1988).
7. Direct conversion of methane. Electrochemical conversion of methane to methanol: Chemically modified electrodes, M.M. Ramírez de Agudelo, B. Scharifker, J. Salazar, M. Milo, A. Leone and W. Marino, *Technical Report INT-02016, 88*, PDVSA-Intevep, 42 pp. (1988).
8. Direct conversion of methane. Electrochemical conversion of methane to methanol: Analytical methods, M.M. Ramírez de Agudelo, B. Scharifker, J. Salazar, M. Milo and J.C. De Jesus, *Technical Report INT-02017,88*, PDVSA-Intevep, 17 pp. (1988).
9. Direct conversion of methane. Electrochemical conversion of methane to methanol: Hydrogen in palladium, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02355.91*, PDVSA-Intevep, 56 pp. (1990).
10. Direct conversion of methane. Electrochemical conversion of methane to methanol: Porous electrodes, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02356, 91*, PDVSA-Intevep, 13 pp. (1990).
11. Direct conversion of methane. Electrochemical conversion of methane to methanol: Analytical methods, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02357, 91*, PDVSA-Intevep, 13 pp. (1990).
12. Direct conversion of methane. Electrochemical conversion of methane to methanol: Platinum as electrode, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02358, 91*, PDVSA-Intevep, 21 pp. (1990).
13. Direct conversion of methane. Electrochemical conversion of methane to methanol: Palladium as electrode, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02359, 91*, PDVSA-Intevep, 31 pp. (1990).
14. Direct conversion of methane. Electrochemical conversion of methane to methanol: Chemically modified electrodes, B. Scharifker, V. Baez and F. Rosa, *Technical Report INT-02360, 91*, PDVSA-Intevep, 60 pp. (1990).
15. Electrochemical improvement of Diesel fuel, E. Garcia Pastoriza, B.R. Scharifker, D. Fermín and M. Milo, *Technical report Funindes (USB)-PDVSA-Intevep*, 93 pp. (1992).
16. Studies of the spatial distribution of nuclei on electrodes, B.R. Scharifker, *Final Report, CONICIT Grant No. S1-1998*, Caracas, 153 pp. (1993).
17. Electrochemical improvement of fuels, I. Suárez, L. Angulo, M. Milo, B.R. Scharifker and E. Garcia Pastoriza, *Technical report Funindes (USB)-PDVSA-Intevep*, 119 pp. (1994).
18. Electrochemical desulfuration of naphtha's, E. García Pastoriza, B.R. Scharifker, A. Zapata, I. Suárez, A. Serruya and M. Milo, *Technical report Funindes (USB)-PDVSA-Intevep* (1996).
19. Studies on the synthesis of polypyrrole thin films and their insulating-conducting transition, B.R. Scharifker,

Dissertation for incorporation as corresponding member, National Academy of Physical, Mathematical and Natural Sciences, Caracas, 27 pp. (1999).

20. Recovery of vanadium contained in acid solutions, R. Arenare and B.R. Scharifker, *Technical report PTS-Pentóxido-ExxonMobil*, Sartenejas, 14 pp. (2000).
21. Studies on electrochemical phase formation, B.R. Scharifker, *Dissertation for incorporation as full member*, National Academy of Physical, Mathematical and Natural Sciences, Caracas, 64 pp. (2004).

BOOKS

1. *Proceedings of the fourth National Meeting on Electrochemistry*, B.R. Scharifker, I.J. Suárez and J. Mostany (Eds.), Venezuelan Electrochemical Society, Caracas (1991), 395 pp (ISBN: 980-237-047-9).
2. *Monographs of Chemistry*, G. Agrifoglio, R. Almeida, C. Bifano, L. Cortés, C. De la Cruz, D. Iacocca, S. Krestonosich, M.B. Mostue, W. Olivares and B. Scharifker, Deanna Marciano (Ed.), Miró, Caracas (1992):
Stoichiometry, 99 pp (ISBN: 980-316-014-1). 2nd edn., 1997 (ISBN: 980-316-027-3).
Atomic structure and periodic table, 97 pp (ISBN: 980-316-019-x).
Chemical bond, 112 pp (ISBN: 980-316-020-x).
States of matter, 121 pp (ISBN: 980-316-021-x).
Solutions, 125 pp (ISBN: 980-316-022-2).
Chemical equilibrium, 129 pp (ISBN: 980-316-021-4).
Energy, entropy and chemical dynamics, 207 pp (ISBN: 980-316-024-9).
Electrochemistry and redox reactions, 86 pp (ISBN: 980-316-023-0).
3. *Solar hydrogen, clean energy of the future*, Spanish version by B. Scharifker et al., of *Solar Hydrogen Energy, the power to save the Earth*, by J.O'M. Bockris, T.N. Veziroglu and D. Smith, Cuatro Vientos, Santiago de Chile (1994), 158 pp (ISBN: 956-242-012-4).
4. *Proceedings of the 10th National Meeting on Electrochemistry*, I.J. Suárez, B.R. Scharifker and J. Mostany (Eds.), Venezuelan Electrochemical Society, Caracas (1998), 186 pp. (ISBN: 980-237-174-2).
5. *The profession of professors*, Collection Alma Mater, Equinoccio, Caracas (2013), 28 pp.

ARTICLES

1. The real economy of energy: hydrogen, *Química Hoy*, 1(1), 31-34 (1988).
2. Research in Electrochemistry, *Química Hoy*, 2(19), 14-18 (1989).
3. A proposal about the "Venezuelan university problem". *Bulletin APUSB* (1991).
4. Fine Chemistry and industrial development (with R. Sanchez), *Investigación & Gerencia*, 10(3), 129-134 (1993).
5. The transparency of the Program for the Promotion of Researchers (with F. Garcia Sanchez), *El Diario de Caracas*, 21 May (1994).
6. More comments on scientific papers and their credibility, *Rev. Soc. Ven. Quím.*, 17(1), 7-8 (1994).
7. Experimental research in Venezuelan universities, in: *Proceedings of the 5th Seminar on Research in Venezuelan Universities*, CDCHT, Caracas, 1995, pp. 54-61.
8. Characterisation of research at universities. Case studies: evaluation and new proposals, in: *Programs for the stimulus of university research, evaluation and new proposals*, CDCHT, Caracas, 1996, pp. 55-66.
9. About the impact of research and development, *Carta Semanal* 24(15), 12-14 (1996).
10. Impact of university research, *Carta Semanal* 24(20), 21-23 (1996).
11. Venezuelan Science and technology in 2020, *Bulletin AsoVAC, Caracas*, (33), 6-10 (1996).

12. Editorial, *J. Braz. Chem. Soc.*, Vol. 8, No. 2, March/April, 91-193 (1997).
13. Post-academic science ¿a new way of building knowledge?, *Interciencia*, 22(4), 163-165 (1997).
14. Academic evaluation in universities. An alphabet soup, *Bulletin AsoVAC, Caracas*, (35), 22-25 (1997).
15. Viergutz and the greenhouse effect, *Letter, El Nacional*, Caracas, p. A/5, 18 January (1998).
16. The value of knowledge, *Opinion, El Nacional*, p. A/5, 15 March (1998).
17. Bibliometric analysis of the use of scientific literature at USB, *Carta Semanal*, 26(15), 16-17 (1998).
18. World Conference on Science. Science for the 21st Century, a new commitment, *Caribe Info OUI*, No. 4, pp. 3-4, October (1999).
19. The science of energy: a tiger in your tank, *Bulletin AsoVAC, Caracas*, (39), 30-33 (2000).
20. The role of science in establishing a national identity, 2nd *Symposium on Venezuela: Tradition in Modernity, the Faces of Identity*, C.E. Aleman and F. Fernandez (editors), Equinoccio, Caracas, 547-553 (2001).
21. Advance of science and higher education: a non-dissociable union, *Opinion, El Universal*, Caracas, 10 December (2001).
22. Scientists and the Venezuelan Crisis (with K. Jaffa, R. Di Polo, J. Cardier, R. Ríos, R. Utrera. M. Rodriguez, L. Briceño Zoppi, A.M. Rojas, A. Ponte and M. Bemporad), *Science*, 299, 1184 (2003).
23. Incorporation address at the Academy of Physical, Mathematical and Natural Sciences, *Bol. Acad. Ciens. Fis. Mat. Nat.* 64, 77-83 (2004).
24. ¿Who are the actors in the knowledge society?, in *Science and Technology in Latin America: a look from Venezuela*, J.M. Cadenas (Editor), CEA-UCV-Fundación Polar, Caracas, pp. 40-44 (2005).
25. Autonomy and Experimentality at Universidad Simon Bolívar, in A. Martucci (editor), *The University Reforms VI*, IESALC-UNESCO, Caracas (ISBN: 980-247-107-0), pp. 31-43 (2006).
26. The density of ideas, *Opinion, El Nacional*, Caracas, p. A/8, 3 June (2006).
27. Ideas and knowledge are in need of talent, *Analitica Premium*, special number on education, <http://www.analitica.com/premium/> 17 September (2006).
28. Student May 2007, *El Nacional*, Caracas, p. A/17, 13 June (2007).
29. Venezuelan students are campaigning for freedom, *Nature* 451, 395 (2008).
30. University Reform, Research and Technological Development, in *University Reform, a Challenge for New Times*, Universidad Metropolitana, Caracas (ISBN 978-980-247-154-6), pp. 121-138 (2009).
31. Response to the incorporation address of Dr. José Luis Paz as member of the Academy of Physical, Mathematical and Natural Sciences, *Bol. Acad. Ciens. Fis. Mat. Nat.* 69, 55-59 (2009).
32. Inclusion, pertinence and quality: a creative equation, in *Latin American University under Discussion*, UCV-IESALC-UNESCO, Caracas (ISBN 978-980-7175-08-1), pp. 349-368 (2010).
33. Science or revolution, *Opinion, El Nacional*, Caracas, p. A/7, 7 February (2011).
34. The relevance of science in the development of Venezuela, C. Bifano, J. Requena, I. de la Vega, C. Machado-Allison, Y. Freitas, B. Scharifker, A. Machado-Allison, J.L. Paz, J. Mostany, in *Proposals to the Nation*, National Academies of Venezuela, Caracas (ISBN 978-980-336-022-1), pp. 203-240 (2011).
35. How to reconcile the policies for inclusion with quality formation? in *The Venezuelan University in the 21st Century*, UCAB, Caracas (ISBN: 978-980-244678-0), pp. 83-94 (2011).
36. Visibility and linkage, *Cuadernos Unimetanos* 6(28), 1-4 (2011).
37. The higher education we want, in *Education to transform the country*, L. Ugalde (Editor) et al., UCAB, Caracas (ISBN: 978-980-244-693-3), pp. 181-185 (2012).

38. Science, technology and innovation as a cross-cutting issue of society in the 21st century, G. Cunto de San Blas, M. Aguilera, C. Bifano, I. Bonalde, K. Jaffe, S. Levi, J.R. Lopez Padrino, C. Ludeña, C. Machado Allison, R. Marín, V. Mujica, J. Requena, R. Ríos, B. Scharifker, F. Tapia, J. Urbina, H. Vanegas, in *Coordinates for a country: Policies in communication, culture, telecommunications and science, technology and innovation*, M. Bisbal and M.J. Gonzalez (editors), UCAB, Caracas (ISBN: 978-980-244-716-9), pp. 77-92 (2012).
39. Venezuelan universities, between constraints and desires to excel: a necessary discussion, C. Bifano, I. Bonalde, I. de la Vega, A. Machado Allison, J. Mostany, J.L. Paz, V. Rodriguez Lemoine, G. San Blas, B. Scharifker, in *Reflections and Proposals for Higher Education*, National Academies of Venezuela, Caracas (ISBN: 978-9890-6195-26-4), pp. 133-202 (2012).
40. Transforming universities, *Final debate*, supplement of weekly 6th Power, Caracas, No. 9, p. 6, June (2013).
41. The role of research in Venezuelan universities, in C. Bifano (Editor), *From the real university to the possible university*, Academy of Physical, Mathematical and Natural Sciences of Venezuela, Caracas (ISBN: 978-980-6195-31-8), pp. 11-26 (2013).
42. Technological energy perspectives and research and development opportunities. Consequences for Venezuela, M. Goldwasser, B. Scharifker, C. Quintini, D. Rojas, E. Buroz, J. Mostany, J.M. Aller, L. Lopez, R. Lairer, in *Reflections and Proposals on Energy*, National Academies of Venezuela, Caracas, pp. 71-288 (2014).
43. The way towards sustainable development, *Producto*, 363, 115, August (2014).
44. A government alienated from its obligations on Science, Technology and Innovation, J. Requena, C. Caputo, B. Scharifker, in *On Corruption, Ethics and Development in Venezuela*, National Academies of Venezuela, Caracas, pp. 225-274 (2015).
45. Science struggles on in my ravaged country, *Nature* 545, 135 (2017).
46. Reason in the time of post-truth, *El Nacional*, Anniversary Edition 74, section on science and everyday life, p. 2, September 3 (2017).
47. “Kristallnacht” seen from the perspective that offers the present time, *Papel literario, El Nacional*, November 15 (2017). Reflecting about the future, Verbigracia, *El Universal*, Caracas, December 7 (2017).

SCIENTIFIC PUBLICATIONS

REFEREED JOURNALS AND BOOK CHAPTERS

1. Three dimensional nucleation of lead: a comment on a paper by F. Palmisano et al, G.J. Hills, I. Montenegro and B.R. Scharifker, *J. Appl. Electrochem.*, 10, 807 (1980).
2. Electrochemical adsorption and phase formation on mercury in sulphide ion solutions, L.M. Peter, J.D. Reid and B.R. Scharifker, *J. Electroanal. Chem.*, 119, 73 (1981).
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PATENTS OF INVENTION

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2. Process to separate the vanadium contained in inorganic acid solutions B.R. Scharifker and R. Arenare, *Pat Appl.* VE 2001-1538 (18 July 2001), *Bol. Ofic. Reg. Prop. Ind. Venez.* No. 459 (4 Nov. 2003); *U.S. Pat. No.* 7,332,141 (February 19, 2008).
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LITERATURE CITATIONS

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INVITED LECTURES

1. Two-dimensional phase transitions, B.R. Scharifker, *Invited lecture*, Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria, 1980.
2. Recent advances in electrocrystallization, B.R. Scharifker, *Invited lecture*, University of Texas at Austin, E.U.A., 1986.
3. Energy conversion in the mitochondria, B.R. Scharifker, *Plenary Lecture*, Annual Meeting of the American Academy of Medical Preventics, Atlanta, Georgia, E.U.A., 1986.
4. Nucleation on active sites, B.R. Scharifker, *Invited lecture*, Third Chemical Congress of North America, Toronto, Canada, 1988.
5. Ensembles of microelectrodes, B.R. Scharifker, *Invited lecture*, 39th Annual Meeting of the International Society of Electrochemistry, Glasgow, Scotland, 1988.
6. Electrochemical nucleation on active sites, B.R. Scharifker, *Invited lecture*, 8th Latin-American Meeting on Electrochemistry and Corrosion, Córdoba, Argentina, 1988.
7. Electrodeposition and electrocatalytic effects of random arrays of ultramicroelectrodes, B.R. Scharifker, *Invited lecture*, Universidad de Buenos Aires, Argentina, 1988.
8. Ensembles of microelectrodes, B.R. Scharifker, *Invited lecture*, Microelectrodes: Theory and Applications, NATO Advanced Study Institute, Alvor, Portugal, 1990.

9. Conducting polymers: Phase formation and electrocatalytic applications, W. Marino, A. Leone, E. Garcia Pastoriza and B.R. Scharifker, *Invited lecture*, 9th Ibero-American Congress on Electrochemistry, Tenerife, Spain, 1990.
10. New materials and electrocatalytic structures, B.R. Scharifker, *Invited lecture*, 3rd French-Venezuelan Congress on Ceramics and New Materials, Mérida, Venezuela, 1991.
11. Partial oxidation of methane at low temperature and pressure, B.R. Scharifker, O.J. Yépez, J.C. De Jesus y M.M.R. de Agudelo, *Invited lecture*, 43rd Meeting of the International Society of Electrochemistry, Córdoba, Argentina, Sept. 20-25, 1992.
12. Mechanisms for the formation and growth of polypyrrole films, D.J. Fermín and B.R. Scharifker, *Invited lecture*, Ibero-American Symposium on Conducting Polymers: Synthesis and Industrial and Biomedical Applications, Buenos Aires, Argentina, 1992.
13. Synthesis and electrochemical properties of polypyrrole, B.R. Scharifker, *Invited lecture*, 9th Ibero-American Congress on Electrochemistry, São Paulo, Brazil, 1994.
14. Spatial distribution of nuclei deposited on surfaces, B.R. Scharifker, *Plenary lecture*, 9th National Congress on Electrochemistry, Cuautla, Morelos, Mexico, 1994.
15. Electrosynthesis and redox properties of polypyrrole films, B.R. Scharifker, *Plenary lecture*, 9th National Congress on Electrochemistry, Cuautla, Morelos, Mexico, 1994.
16. Recent advances in the study of the insulator-conductor transition of polypyrrole, B.R. Scharifker, D.J. Fermín and J. Mostany, *Invited lecture*, 45th Meeting of the International Society of Electrochemistry, Porto, Portugal, 1994.
17. The spatial dimension in electrocrystallisation processes, B.R. Scharifker, *Invited lecture*, 18th Annual Meeting of the Brazilian Chemical Society, Caxambu, Minas Gerais, Brazil, 1995.
18. Non-traditional views on a traditional new material: polypyrrole, B.R. Scharifker, *Invited lecture*, 1st Graduate Workshop on Electrochemistry and Electroanalytical Chemistry, Institute of Chemistry of São Carlos, University of São Paulo, Brazil, 1995.
19. Formation, growth and properties of thin polypyrrole films on electrodes, B.R. Scharifker, E. Garcia P. and J. Mostany, *Invited lecture*, 25th Anniversary of USB Symposium on Polymers, Caracas, 1995.
20. The spatial dimension and interactions among nuclei in electrocrystallisation processes, *Invited lecture*, 12th Ibero-American Congress on Electrochemistry, Mérida, Venezuela, 1996.
21. The spatial dimension in electrocrystallisation processes, *Inaugural lecture*, Chemistry graduate school, University of Zulia, Maracaibo, Venezuela, 1996.
22. Fresh views on the formation, growth, and properties of polypyrrole, an elderly new material. *Invited lecture*, École Polytechnique Fédérale de Lausanne, Switzerland, 1997.
23. Hemispherical arrays growing under diffusion control, *Plenary lecture*, 11th National Meeting on Electrochemistry, Maracaibo, Venezuela, 1998.
24. The value of knowledge. *Invited lecture*, Faculty of Science and Technology, Lisandro Alvarado Central-Western University, Barquisimeto, Venezuela, 1998.
25. Current theoretical and experimental approaches to the study of electrochemical nucleation with diffusion-controlled growth, *Invited lecture*, Gordon Research Conference on Electrodeposition, New London, New Hampshire, U.S.A, 1998.
26. The role of science in establishing a national identity, *Invited lecture*, 2nd Symposium on Venezuela: Tradition in Modernity, the Faces of Identity, Caracas, Venezuela, 1998.
27. Surface electrochemistry, *Invited lecture*, Symposium Matter 98, Caracas, Venezuela, 1998.
28. Electrochemical phase formation: fundamentals and experiments, *Invited lecture*, Symposium 60 years of the Venezuelan Chemical Society, Caracas, Venezuela, 1998.

29. Electrochemical Phase formation, from ions in solution to crystals on surfaces, *Invited lecture*, 4th Venezuelan Chemistry Congress, Mérida, Venezuela, 1999.
30. Energy and sustainable growth, *Invited lecture*, Forum on science and energy: fossil fuels and new energy sources, Caracas, 1999. Also as *Invited lecture* in the Cycle on Chemistry and the Environment, Caracas, Venezuela, 1999, and in Forum on Research, Science and Sustainable Development: Limitations and Opportunities, Barquisimeto, Venezuela, 1999.
31. Quality and pertinence of university research, *Invited lecture*. 6th Seminar on research in national universities, Maracay, Venezuela, 1999.
32. Doping and ion exchange in conducting polymers, *Invited lecture*, 9th National Colloquium on Polymers, Mérida, Venezuela, 1999.
33. The insulator-conductor transition in conducting polymers, *Invited lecture*, 1st Course of the Integrated Graduate School in Chemistry: Supramolecular Chemistry, Caracas, Venezuela, 1999.
34. Job creation in the science and technology fields, *Invited lecture*, Vision of the country: Venezuela in the 21st Century. Presidential Commission on the 5th Centenary of Venezuela, Caracas, Venezuela, 1999.
35. Advances in the study of phase formation processes on electrodes. *Plenary lecture*. 14th Congress of the Ibero-Americana Society of Electrochemistry, Oaxaca, Mexico, 2000.
36. Fundamental aspects of the electrocrystallization of metals. *Invited lecture*. Jondal 2000 Symposium on "Fundamentals on Magnesium Electrolysis", Jondal, Norway, 2000.
37. Electrochemical phase formation, *Invited Course (15 h)*, 5th Winter School on Physical Chemistry, São Carlos, São Paulo, Brazil, 2000.
38. *Discussion leader on 'Fundamentals'*, Gordon Research Conference on Electrodeposition, New London, New Hampshire, U.S.A., 2000.
39. Collective effects and self-organization in the electrochemical formation of phases, *Invited lecture*. 2nd Interdisciplinary Workshop on Complex Systems, Valley of Pedro Gonzalez, Margarita, Venezuela, 2000.
40. Energetic possibilities: a perspective view on fuel cells, *Invited lecture*. 1st Symposium of the Venezuelan Association for the Advancement of Technology, Caracas, Venezuela, 2000.
41. On the structure of Chemistry graduate programs in Venezuela, *Invited lecture*, Postgraduate forum, 5th Venezuelan Chemistry Congress, Maracaibo, Venezuela, 2001.
42. Generation and transport of charge carriers in polypyrrole: kinetics and mechanism, *Invited lecture*, 6th Latin-American Conference on Physical Organic Chemistry, Porlamar, Venezuela, 2001.
43. Energetic possibilities in the transition towards the hydrogen economy, *Invited lecture*, Future World Society Venezuela, Caracas, Venezuela, 2002.
44. Hydrogen in palladium and its effects on the oxidation of organic compounds, *Invited lecture*, 15th National Meeting on Electrochemistry, Mérida, Venezuela, 2002.
45. Advances in the study of electrocrystallization, *Plenary lecture*, 15th Congress of the Ibero-American Society of Electrochemistry, Évora, Portugal, 2002.
46. Electrodeposition of arrays of small metal particles, *Plenary lecture*, 53rd Annual Meeting of the International Society of Electrochemistry, Düsseldorf, Germany, 2002.
47. Pertinence of university research: the ways of knowledge, *Invited lecture*, International Meeting of University Rectors, Medellín, Colombia, 2003.
48. Studies on the electrocrystallisation of metals, nature of the deposits and some pending questions, *Invited lecture*, Electrochemistry and Materials Week, Mexico D.F., Mexico, 2003.
49. Current topics of interest in Electrochemistry: 1. Electrochemical phase formation, 2. Synthesis and properties of conducting polymer films, 3. Anodic oxidation of organic compounds, 4. A prospective view of energy conversion, *Series of invited lectures*, Universidad Autónoma del Estado de Hidalgo, Pachuca, Mexico, 2004.

50. The role of universities in the Venezuelan future, *Invited lecture*, Venezuela Forum 2006: Institutions, Democracy and Development, Caracas, Venezuela, 2006.
51. Formation and catalytic properties of phases on electrodes, *invited lecture*, Symposium on Chemistry in the New Millennium, Expo Chem. 2006, Mayaguez, Puerto Rico, 2006.
52. Scenarios on alternative energies, *Invited lecture*, Scenarios 2007-2020: World Projections and Challenges for Venezuela, World Future Society, Caracas, Venezuela, 2007.
53. Theoretical models for multiple nucleation with diffusion-controlled three-dimensional growth, C. Borrás, D. Mazaira, J. Mostany, B.R. Scharifker, *Plenary lecture*, 22nd National Congress of the Mexican Society of Electrochemistry, Pachuca, México (2007).
54. Chemistry in Venezuela and the challenges of the future, *Inaugural Conference*, 8th Congress of the Venezuelan Chemical Society, Caracas, Venezuela, 2007.
55. Venezuelan universities and future challenges, *Invited conference*, Symposium on Francisco de Venanzi and the Challenges of Universities in the 21st Century, 57th Annual Convention of the Venezuelan Association for the Advancement of Science, San Cristobal, Venezuela, 2007.
56. The challenge of education, *Invited conference*, Baruta City Council, Venezuela, 2008.
57. Multiple nucleation and diffusion-controlled growth: Theoretical models and experimental findings, *Invited lecture*, Institute for Advance Studies, University of Bristol, UK, 2009.
58. On current issues about science and universities in Venezuela, *Invited talk*, Laurie M. Peter 65th birthday Emeritus Professor Celebration, University of Bath, UK, 2009.
59. Current problems in the study of nucleation and diffusion-controlled growth of new phases on electrodes, *Keynote lecture*, Electrochem09, Manchester, UK, 2009.
60. Research, development and innovation in universities, *Central conference*, 1st Meeting of Researchers at the University of Carabobo, Valencia, Venezuela, 2009.
61. Knowledge development and the building of the future, *Inaugural lecture*, Doctorate in Materials Science, Universidad de Oriente, Cumana, Venezuela, 2010.
62. Importance, pertinence and future of graduate studies in the area of the basic sciences, *Invited conference*, Ordinary Session No. 66 of the National Council of Universities Authorities for Graduate Study, Camurí, Venezuela, 2010.
63. University and science, *Invited lecture*, Cycle of talks on Policy in Science and Technology in Venezuela, Social Responsibility and Academic Networks, Caracas, Venezuela, 2010.
64. Aspects of the science and nanotechnology of phases on electrodes, *Plenary lecture*, 23rd National Meeting on Electrochemistry, Maracaibo, Venezuela, 2010.
65. Public policies in science, *Invited lecture*, International Symposium on Production of Knowledge in Academia: Possibilities and Obstacles, Caracas, Venezuela, 2010.
66. Studies concerning the formation and function of nanostructures on electrodes, *Keynote lecture*, 25th Congress of the Mexican Society of Electrochemistry and 3rd Meeting of the Mexican Section of the Electrochemical Society, Zacatecas, Mexico, 2010.
67. What science and with whom in the Land of Grace?, *Invited talk*, TED^xTierraDeGracia, Caracas, 2010.
68. How to reconcile the policies for inclusion with quality formation? *Invited lecture*, National Meeting of Universities, the Venezuelan University in the 21st Century, Caracas, Venezuela, 2011.
69. Admission to universities, formation with quality, *Invited lecture*, International Seminar: Integral formation with social relevance, policies for admission, advancement and graduation in the University transformation agenda, Maracaibo, Venezuela, 2011.
70. The development of knowledge society, *Invited talk*, Symposium “Production of knowledge and public policies for science, technology and innovation”, LXI AsoVAC Annual Convention, Maracay, Venezuela, 2011.

71. The impact of knowledge on Venezuelan social development, *Closing lecture*, 4th Meeting on Research and Graduate Studies “Impact of scientific and technological research on society”, Barquisimeto, Venezuela, 2011.
72. Science Academies and integration in Latin America and the Caribbean, *Invited lecture*, International Seminar on Science and Integration in Latin America, 2nd Latin American and Caribbean week at the Institute of Latin American Studies, Caracas, Venezuela, 2011.
73. Venezuelan Universities: current status and necessary changes, *Invited lecture*, Universidad Centroccidental Lisandro Alvarado, Barquisimeto, Venezuela, 2012.
74. Venezuelan Universities: current status and necessary changes, Discussion on “Education to transform the country”, Rafael Urdaneta University, Maracaibo, 2012.
75. A University for Utopia, *Invited lecture*, University of Guayana, Puerto Ordaz, Venezuela, 2012.
76. Vision on education, *Invited lecture*, Venezuelan College of Engineering, Caracas, 2012.
77. Thinking the university, sight and perspectives, *Invited talk*, 3rd Latin American and Caribbean Week, Simon Bolívar University, Caracas, 2012.
78. Minimal stories: electrochemical phase formation and chemical reactions on nanostructured surfaces, *Invited lecture*, Symposium on “Science Frontiers”, 62nd Annual Convention of the Venezuelan Association for the Advancement of Science, Caracas, 2012.
79. The University in Utopia, *Invited talk*, TED^XUSB, Caracas, 2013.
80. Commitment and challenges for university teachers in the 21st Century, *B. Kliksberg Open Chair*, National University of Táchira, San Cristóbal, Venezuela, 2013.
81. Rethinking research in Venezuelan universities, *Plenary Conference*, 8th National Congress and 2nd International Research Congress, University of Carabobo, Valencia, Venezuela, 2013.
82. The challenge to universities in building capacities for peace, *Opening conference*, 64th Annual Conention of the Venezuelan Association for the Advancement of Science, Caracas, 2014.
83. The challenge of universities and research institutes, *Invited talk*, Symposium on “How to restore the intellectual capital of the country”, 64th Annual Conention of the Venezuelan Association for the Advancement of Science, Caracas, 2014.
84. Building capacities for peace, *Inaugural lecture*, J.M. Vargas School, Faculty of Medicine, Central University of Venezuela, Caracas, 2015.
85. The future of energy, *Plenary Conference*, World Congress on Green Citizenship, Valencia, Venezuela. 2015.
86. Research and Education in a technological University, *Videoconference*, Meeting on Professoral Research and Innovation, National Experimental University of Tachira, San Cristóbal, Venezuela, 2016.
87. Science and human rights in Venezuela: a status report, 12th Biennial Meeting, International Human Rights Network of Academies and Scholarly Societies, Panama, 2016.
88. Our learning of Electrochemistry, Learning 3.0, 13th Ibero American Meeting of the Civil Society, Caracas, Venezuela, 2016.
89. What we now know about electrocrystallization and what we would like to know about it, *Plenary Conference*, 29th National Meeting of Electrochemistry, Caracas, 2016.
90. Science and University, *Invited talk*, Symposium “Frontiers of Science”, 66th Annual Conention of the Venezuelan Association for the Advancement of Science, Caracas, 2016.

COMMUNICATIONS TO SCIENTIFIC MEETINGS

1. Study on inhibitory effects of the oxidation of hydrocarbons, J. Lecuna y B.R. Scharifker, 26th Annual Convention of AsoVAC, Puerto La Cruz, Venezuela, 1976.

2. Nanoelectrodes, B.R. Scharifker, Annual General Meeting of the Electrochemistry Group, Faraday Division, Chemical Society, Imperial College, London, England, 1978.
3. Electrochemical studies of the nucleation of metals, B.R. Scharifker, 4th Latin American Meeting on Electrochemistry and Corrosion, Caracas, Venezuela, 1979.
4. Electrochemical kinetics at microscopically small electrodes, B.R. Scharifker, G.A. Gunawardena and G.J. Hills, 31st Meeting of the International Society of Electrochemistry, Venice, Italy, 1980.
5. Electroanalytical chemistry with microscopic electrodes, B.R. Scharifker y J. Mozota, 1st National Meeting on Analytical Chemistry, Caracas, Venezuela, 1981.
6. Use of the PDP-11/34 for the acquisition and processing of electrochemical data, J. Mozota y B.R. Scharifker, 1st National Meeting on Analytical Chemistry, Caracas, Venezuela, 1981.
7. Effect of the adsorption of halide ions on the electrochemical behaviour of platinum and iridium, J. Mozota, B.R. Scharifker y E. Garcia P., 31st Annual Convention of AsoVAC, Maracaibo, Venezuela, 1981.
8. Electrochemical nucleation of lead ZnO single crystals, B.R. Scharifker y L.M. Peter, 31st Annual Convention of AsoVAC, Maracaibo, Venezuela, 1981.
9. Formation of copper sulphide anodic films on copper, R. Rugeles, B.R. Scharifker, J. Mozota y E. Garcia P., 31st Annual Convention of AsoVAC, Maracaibo, Venezuela, 1981.
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