

- *История и философия на химията* •
- *History and Philosophy of Chemistry* •

HISTORY AND PHILOSOPHY OF CHEMISTRY (HPC) PUBLICATIONS IN CURRENT PERIODICALS (2007)

B.V. TOSHEV
University of Sofia, BULGARIA

Abstract. Hopefully all the papers in the field of History and Philosophy of Chemistry (HPC), published in 2007, are listed in the present bibliography. This reference list contains 156 articles published in 32 scholarly journals. For 2004, 2005 and 2006 these publications were 97, 148 and 150, respectively. A list of 48 academic journals, open for such kind of articles, is presented.

Keywords: history and philosophy of chemistry, bibliography

INTRODUCTION

The History and Philosophy of Chemistry Bibliography in Current Periodicals is an exclusive feature of *Khimiya/Chemistry. Bulgarian Journal of Chemical Education* [1-3]. It is also an initiative of the Bulgarian Society for the Chemistry Education and History and Philosophy of Chemistry (CE&HPC) [3]. The aim of this edition is to encourage and stimulate the Bulgarian chemists and philosophers to carry out research and write papers in that revived research area. At present the modern development of this scientific field is not known and rightly understood by our academic community. Only in *Khimiya* we try to provide a special room for such kind of studies. It is in *Khimiya*'s rubric 'History and Philosophy of Chemistry'.

Certainly there exist complete and useful similar editions and amongst them, e.g., are: *Isis Current Bibliography* (Stephen P. Weldom), *Hyle Bibliographies* (Joachim Schummer), 'Recent Publications of Interest', presented regularly in *AIP History Newsletter*, 'Bibliography of the History of Australian Science', published frequently

in *Historical Records of Australian Science*, etc. Nevertheless our collection, restricted to chemistry only, may be of interest as well.

This bibliography has been compiled after examining the contents of the following journals ('NO' means no articles on HPC in the corresponding journal for 2007):

AMBIX. THE JOURNAL OF THE SOCIETY FOR THE HISTORY OF ALCHEMY AND CHEMISTRY ISSN 0002-6980;

ANNALS OF SCIENCE. THE HISTORY OF SCIENCE AND TECHNOLOGY ISSN 0003-3790;

ARCHIVE FOR THE HISTORY OF EXACT SCIENCES ISSN 0003-9519 (NO);

BRITISH JOURNAL FOR THE HISTORY OF SCIENCE ISSN 0007-0874;

BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE ISSN 0007-0882;

BULLETIN FOR THE HISTORY OF CHEMISTRY ISSN 1053-4385;

CENTAURUS. AN INTERNATIONAL JOURNAL OF THE HISTORY OF SCIENCE AND ITS CULTURAL ASPECTS ISSN 0008-8994;

CHEMISTRY EDUCATION: RESEARCH AND PRACTICE ISSN 1109-4028 (NO);

EARLY SCIENCE AND MEDICINE ISSN 1383-7427 (NO);

ENDEAVOUR. A REVIEW OF THE PROGRESS OF SCIENCE AND TECHNOLOGY IN THE SERVICE OF MANKIND ISSN 0160-9327;

ERKENNTNIS. AN INTERNATIONAL JOURNAL OF ANALYTIC PHILOSOPHY ISSN 0165-0106 (NO);

FOUNDATIONS OF CHEMISTRY. PHILOSOPHICAL, HISTORICAL, EDUCATIONAL AND INTERDISCIPLINARY STUDIES OF CHEMISTRY ISSN 1386-4238;

FOUNDATIONS OF PHYSICS. AN INTERNATIONAL JOURNAL DEVOTED TO THE CONCEPTUAL BASES AND FUNDAMENTAL THEORIES OF MODERN PHYSICS, BIOPHYSICS, AND COSMOGONY ISSN 0015-9018;

FOUNDATIONS OF SCIENCE. THE OFFICIAL JOURNAL OF THE ASSOCIATION FOR FOUNDATIONS OF SCIENCE, LANGUAGE AND COGNITION ISSN 1233-1821;

HISTORICAL RECORDS OF AUSTRALIAN SCIENCE ISSN 0727-3061;

HISTORICAL STUDIES IN THE PHYSICAL AND BIOLOGICAL SCIENCES. JOURNAL OF THE INTELLECTUAL AND SOCIAL HISTORY OF THE PHYSICAL SCIENCES AND EXPERIMENTAL BIOLOGY SINCE THE 17TH CENTURY ISSN 0890-9997;

HISTORY AND TECHNOLOGY. AN INTERNATIONAL JOURNAL ISSN 0734-1512;

HISTORY OF SCIENCE ISSN 0073-2753 (NO);

HYLE. INTERNATIONAL JOURNAL FOR PHILOSOPHY OF CHEMISTRY ISSN 1433-5158;

INTERCHANGE. A QUARTERLY REVIEW OF EDUCATION ISSN 0826-4805 (NO);

INTERDISCIPLINARY SCIENCE REVIEW ISSN 0308-0188;

INTERNATIONAL STUDIES IN THE PHILOSOPHY OF SCIENCE ISSN 0269-8595 (NO);

ISIS: AN INTERNATIONAL REVIEW DEVOTED TO THE HISTORY OF SCIENCE AND ITS CULTURAL INFLUENCES ISSN 0021-1573 (NO);

JOURNAL FOR GENERAL PHILOSOPHY OF SCIENCE ISSN 0925-4560 (NO);

JOURNAL OF CHEMICAL EDUCATION ISSN 0021-9581;

JOURNAL OF THE HISTORY OF MEDICINE AND ALLIED SCIENCES ISSN 0022-5045 (NO);

KHIMIYA/CHEMISTRY. BULGARIAN JOURNAL OF CHEMICAL EDUCATION ISSN 0861-9255;

MEDICAL HISTORY ISSN 0025-7273;

MIND ISSN 0026-4423 (NO);

MINERVA. A REVIEW OF SCIENCE, LEARNING AND POLICY ISSN 0026-4695 (NO);

NOTES AND RECORDS OF THE ROYAL SOCIETY ISSN 0035-9149;

PERSPECTIVES ON SCIENCE: HISTORICAL, PHILOSOPHICAL, SOCIAL ISSN 1063-6145;

PHILOSOPHY OF SCIENCE. OFFICIAL JOURNAL OF THE PHILOSOPHY OF SCIENCE ASSOCIATION ISSN 0031-8248;

PHYSICS IN PERSPECTIVE ISSN 1422-6944;

PUBLIC UNDERSTANDING OF SCIENCE ISSN 0963-6625;

RESONANCE. JOURNAL OF SCIENCE EDUCATION ISSN 0971-8044;

SCIENCE AND EDUCATION. CONTRIBUTIONS FROM THE HISTORY, PHILOSOPHY AND SOCIOLOGY OF SCIENCE AND MATHEMATICS ISSN 0926-7220;

SCIENCE AS CULTURE ISSN 0950-5431 (NO);

SCIENCE EDUCATION ISSN 0036-8326;

SCIENCE IN CONTEXT ISSN 0269-8897 (NO);

SCIENCE, TECHNOLOGY AND HUMAN VALUES. JOURNAL OF THE SOCIETY FOR SOCIAL STUDIES OF SCIENCE ISSN 0162-2439;

SOCIAL STUDIES OF SCIENCE. AN INTERNATIONAL REVIEW OF RESEARCH IN THE SOCIAL DIMENSIONS OF SCIENCE AND TECHNOLOGY ISSN 0306-3127 (NO);
STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE. PART A ISSN 0039-3681;

STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE. PART B. STUDIES IN HISTORY AND PHILOSOPHY OF MODERN PHYSICS ISSN 1355-2198;

STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE. PART C. STUDIES IN HISTORY OF SCIENCE OF BIOLOGICAL AND BIOMEDICAL SCIENCES ISSN 1369-8486 (NO);

SYNTHESE ISSN 0039-7857;

TECHNOLOGY AND CULTURE ISSN 0040-165X

THE CHEMICAL EDUCATOR ISSN 1430-4171.

BIBLIOGRAPHY

KHIMIYA/CHEMISTRY. BULGARIAN JOURNAL OF CHEMICAL EDUCATION ISSN 0861-9255

T. Christofilis, M. Kousathana. Historical Models of Chemical Kinetics in Science Education. *Khimiya/Chemistry* **16**, 61-75 (2007).

A. Lamprou. The Ethics of Scientific Chemistry: Myths and Reality. *Khimiya/Chemistry* **16**, 149-160 (2007).

B.V. Toshev. History and Philosophy of Chemistry (HPC) Publications in Current Periodicals (2006). *Khimiya/Chemistry* **16**, 394-412 (2007).

A.F. Jalbout, B. Trzskawski. The Origin of the Exact Energy Expressions in Density Functional Theory. *16*, 453-465 (2007).

B.V. Toshev. The Successful Teacher: Historical Review with Some Practical Recommendations. *Khimiya/Chemistry 16*, 473-481 (2007) [In Bulgarian].

B.V. Toshev. The School Subject “Chemistry and Gas Defence” and Its Modern Projections. *Khimiya/Chemistry 16*, 519-533 (2007) [In Bulgarian].

W.P. (Bill) Palmer. Dissent at the University of Iowa: Gustavus Detlev Hinrichs – Chemist and Polymath. *Khimiya/Chemistry 16*, 534-553 (2007).

M. Igov. Initial Conceptions Concerning the Genesis of the Properties of Chemical Compound. *Khimiya/Chemistry 16*, 554-560 (2007) [In Bulgarian].

S. Moulay. Therapeutic, Tinting, and Taste-Related Molecules: Other Facets of Serendipity. *Khimiya/Chemistry 16*, 569-595 (2007).

AMBIX. THE JOURNAL OF THE SOCIETY FOR THE HISTORY OF AL-
CHEMY AND CHEMISTRY ISSN 0002-6980

J. Sumner. Michel Combrune, Peter Shaw and Commercial Chemistry: The Boerhaavian Chemical Origins of Brewing Thermometry. *Ambix 54*, 5-29 (2007).

R. Seligardi. Between Grocers and Physicians: Pharmacists, the New Chemistry, and Institutional Reforms in Bologna during the Napoleonic Period. *Ambix 54*, 31-50 (2007).

A.M. Roos. Nehemiah Grew (1641-1712) and the Saline Chemistry of Plants. *Ambix 54*, 51-68 (2007).

J.A. Norris. Early Theories of Aqueous Mineral Genesis in the Sixteenth Century. *Ambix 54*, 69-86 (2007).

S. Weeks. Francis Bacon and the Art-Nature Distinction. *Ambix 54*, 117-145 (2007).

J. Frercks, M. Markert. The Invention of *Theoretische Chemie*: Forms and Uses of German Chemistry Textbooks, 1775-1820. *Ambix 54*, 147-171 (2007).

V. Karpenko. Not All That Glitters is Gold: Gold Imitations in History. *Ambix 54*, 172-191 (2007).

A. Van Rooij. Industrial Research as a “Corporate Counterculture”? The Development of the HPO Caprolactam Process at DSM, 1956-77. *Ambix 54*, 192-210 (2007).

K.-M. (Kevin) Chang. Toleration of Alchemists as a Political Question: Transmutation, Disputation, and Early Modern Scholarship on Alchemy. *Ambix 54*, 245-273 (2007).

A. Bandinelli. The Isolated System of Quantifiable Experiences in the 1783 “Mémoire sur la chaleur” of Lavoisier and Laplace. *Ambix 54*, 274-284 (2007).

B.C. White, W.W. Woodward. “A Most Exquisite Fellow” – William White and an Atlantic Word Perspective on the Seventeenth-Century Chymical Furnace. *Ambix 54*, 285-298 (2007).

I. Longhurst. The Identity of Pliny's *Flos Salis* and Roman Perfume. *Ambix* **54**, 299-302 (2007).

ANNALS OF SCIENCE.THE HISTORY OF SCIENCE AND TECHNOLOGY
ISSN 0003-3790

D.J. Warner. How Sweet It Is: Sugar, Science, and the State. *Annals of Science* **64**, 147-170 (2007).

H. Hirai. Interpretation chymique de la creation et origine corpusculaire de la vie chez Athanasius Kircher. *Annals of Science* **64**, 217-234 (2007).

G. Gass. Spheres of Influence: Illustration, Notation, and John Dalton's Conceptual Toolbox, 1803-1835. *Annals of Science* **64**, 349-382 (2007).

C. Genin. Le Dosage Spectrometrique du Mercure dans l'Air vers 1930. *Annals of Science* **64**, 579-593 (2007).

BRITISH JOURNAL FOR THE HISTORY OF SCIENCE ISSN 0007-0874

M. Hunter. Robert Boyle and the Early Royal Society: A Reciprocal Exchange in the Making of Baconian Science. *British J. Hist. Sci.* **40**, 1-23 (2007).

P. Unwin, R. Unwin. 'A Devotion to the Experimental Sciences and Arts': The Subscription to the Great Battery at the Royal Institution 1808-9. *British J. Hist. Sci.* **40**, 181-203 (2007).

S.M. Horrocks. The Internationalization of Science in a Commercial Context: Research and Development by Overseas Multinationals in Britain before the Mid-1970s. *British J. Hist. Sci.* **40**, 227-250 (2007).

C. Macleod, J. Tenn. From Engineer to Scientist: Reinventing Invention in the Watt and Faraday Centenaries, 1919-31. *British J. Hist. Sci.* **40**, 389-411 (2007).

BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE ISSN 0007-0882

R.F. Hendry, P. Needham. Le Poidevin on the Reduction of Chemistry. *British J. Phil. Sci.* **58**, 339-353 (2007).

BULLETIN FOR THE HISTORY OF CHEMISTRY ISSN 1053-4385

P.J.T. Morris. A Personal Historiography of the Chemical Industry Since 1956. *Bull. Hist. Chem.* **32**, 10-20 (2007).

M. Jo Nye. Scientific Biography in the History of Chemistry: The Role of Dexter and Edelstein Award Winners in the Last Fifty Years. *Bull. Hist. Chem.* **32**, 21-26 (2007).

A.S. Travis. Unintended Technology Transfer: Acetylene Chemistry in the United State. *Bull. Hist. Chem.* **32**, 27-34 (2007).

A.S. Travis. Mauve and Its Anniversaries. *Bull. Hist. Chem.* **32**, 35-44 (2007).

M.B. Rubin. The History of Ozone. V. Formation of Ozone from Oxygen at High Temperatures. *Bull. Hist. Chem.* **32**, 45-56 (2007).

J.J. Bohning. Looking Back: Eighty-Five Years of Chemists and Their History. *Bull. Hist. Chem.* **32**, 66-80 (2007).

P.R. Jones. Communicating the History of Chemistry. *Bull. Hist. Chem.* **32**, 82-86 (2007).

J.E. Seeman. Influence of Hist and the History of Chemistry on the Course of Chemistry, Examples of Synergy. *Bull. Hist. Chem.* **32**, 87-96 (2007).

C.J. Guinta. Looking Ahead: Keeping History of Chemistry Relevant to the Future of Chemistry. *Bull. Hist. Chem.* **32**, 98-103 (2007).

U. Deichmann. "Molecular" versus "Colloidal": Controversies in Biology and Biochemistry, 1900-1940. *Bull. Hist. Chem.* **32**, 105-118 (2007).

B. Jaselskis, C.E. Moore, A. von Smolinsk. Theodor von Grotthuss (1785-1822) – A Trail Blazer. *Bull. Hist. Chem.* **32**, 119-128 (2007).

K. Olsen. Clear Waters and a Green Gas: A History of Chlorine as a Swimming Pool Sanitizer in the United States. *Bull. Hist. Chem.* **32**, 129-140 (2007).

CENTAURUS. AN INTERNATIONAL JOURNAL OF THE HISTORY OF
SCIENCE AND ITS CULTURAL ASPECTS ISSN 0008-8994

A.K. Nielsen. Fashioning and Demarcation of the Danish Chemical Community in the 19th Century. *Centaurus* **49**, 199-226 (2007).

D. van Delft. Facilitating Leiden's Cold: The International Association and the Internationalisation of Heike Kamerlingh Onnes's Cryogenic Laboratory. *Centaurus* **49**, 227-245 (2007).

ENDEAVOUR. A REVIEW OF THE PROGRESS OF SCIENCE AND TECHNOLOGY IN THE SERVICE OF MANKIND ISSN 0160-9327

H. Chang. When Water Does Not Boil at the Boiling Point. *Endeavour* **31**, 7-11 (2007).

G. Patterson. Jean Perrin and the Triumph of the Atomic Doctrine. *Endeavour* **31**, 50-53 (2007).

M. Gormley. The First 'Molecular Disease': A Story of Linus Pauling, the Intellectual Patron. *Endeavour* **31**, 71-77 (2007).

P. Fara. Baron Kelvin of Largs: An Economical Engineer. *Endeavour* **31**, 122-123 (2007).

B. Bensaude-Vincent. *College Chemistry: How a Textbook Can Reveal the Values Embedded in Chemistry. Endeavour* **31**, 140-144 (2007).

FOUNDATIONS OF CHEMISTRY. PHILOSOPHICAL, HISTORICAL,
EDUCATIONAL AND INTERDISCIPLINARY STUDIES OF CHEMISTRY
ISSN 1386-4238

R.J. Deltete. Wilhelm Ostwald's Energetics 1: Origins and Motivations. *Foundations of Chemistry* **9**, 3-56 (2007).

C. Jacob. The Closure of the Department of Chemistry at the University of Exeter – An Insider's View. *Foundations of Chemistry* **9**, 57-64 (2007).

L. Näpinen. The Need for the Historical Understanding of Nature in Physics and Chemistry. *Foundations of Chemistry* **9**, 65-84 (2007).

S. Shahbazian, M. Zahedi. The Concept of Chemical Bond – Some Like It Fuzzy But Others Concrete. *Foundations of Chemistry* **9**, 85-95 (2007).

G. Rayner-Canham, M. Oldford. The Chemical 'Knight's Move' Relationship: What Is Its Significance? *Foundations of Chemistry* **9**, 119-125 (2007).

M. Laing. Where to Put Hydrogen in a Periodic Table? *Foundations of Chemistry* **9**, 119-125 (2007).

W.H. Eugen Schwarz. Recommended Questions on the Road towards a Scientific Explanation of the Periodic System of Chemical Elements with the Help of the Concept of Quantum Physics. *Foundations of Chemistry* **9**, 139-188 (2007).

G. Restrepo, L. Pachon. Mathematical Aspects of the Periodic Law. *Foundations of Chemistry* **9**, 189-214 (2007).

M.R. Kibler. From the Mendeleev Periodic Table to Particle Physics and Back to the Periodic Table. *Foundations of Chemistry* **9**, 221-234 (2007).

P.J. Stewart. A Century on from Dmitrii Mendeleev: Tables and Spirals, Noble Gases and Nobel Prizes. *Foundations of Chemistry* **9**, 235-245 (2007).

S. Elduran. Breaking the Law: Promoting Domain-specificity in Chemical Education in the Context of Arguing about the Periodic Law. *Foundations of Chemistry* **9**, 247-263 (2007).

R.J. Deltete. Wilhelm Ostwald's Energetics 2. Energetic Theory and Applications, Part I. *Foundations of Chemistry* **9**, 265-316 (2007).

FOUNDATIONS OF PHYSICS. AN INTERNATIONAL JOURNAL DE-
VOTED TO THE CONCEPTUAL BASES AND FUNDAMENTAL THEO-
RIES OF MODERN PHYSICS, BIOPHYSICS, AND COSMOGONY
ISSN 0015-9018

C.K. Whitney. Relativistic Dynamics in Basic Chemistry. *Foundations of Physics* **37**, 788-812 (2007).

FOUNDATIONS OF SCIENCE. THE OFFICIAL JOURNAL OF THE ASSOCIATION FOR FOUNDATIONS OF SCIENCE, LANGUAGE AND COGNITION ISSN 1233-1821

P. Uzan. The Arrow of Time and Meaning. *Foundations of Science* **12**, 109-137 (2007).

E. Klein. About the Confusion between the Course of Time and the Arrow of Time. *Foundations of Science* **12**, 203-221 (2007).

R. Vihalemm. Philosophy of Chemistry and the Image of Science. *Foundations of Science* **12**, 223-234 (2007).

HISTORICAL RECORDS OF AUSTRALIAN SCIENCE ISSN 0727-3061

I.D. Rae. Appointing a Professor: Reflections on Filling the Chair of Organic Chemistry at the University of Sydney in 1948. *Hist. Records Australian Sci.* **18**, 19-42 (2007).

R.W. Rickards, J. Comforth. Arthur John Birch 1915-1995. *Hist. Records Australian Sci.* **18**, 243-280 (2007).

HISTORICAL STUDIES IN THE PHYSICAL AND BIOLOGICAL SCIENCES. JOURNAL OF THE INTELLECTUAL AND SOCIAL HISTORY OF THE PHYSICAL SCIENCES AND EXPERIMENTAL BIOLOGY SINCE THE 17TH CENTURY ISSN 0890-9997

S.G. Brush. How Ideas Became Knowledge: The Light-quantum Hypothesis 1905-1935. *Hist. Studies Phys. Biol. Sci.* **37**, 205-246 (2007).

H.S. Kragh. Cosmogony and the Entropic Creation Argument. *Hist. Studies Phys. Biol. Sci.* **37**, 369-382 (2007).

M. Jo nye. Historical Sources of Science-as-Social Practice: Michael Polanyi's Berlin. *Hist. Studies Phys. Biol. Sci.* **37**, 409-434 (2007).

S.R. Weart. Money for Keeling: Monitoring CO₂ Levels. *Hist. Studies Phys. Biol. Sci.* **37**, 435-452 (2007).

D. Yi. The Coming of Reversibility: The Discovery of DNA Repair between the Atomic Age and the Information Age. *Hist. Studies Phys. Biol. Sci.* **37**(Suppl.), 35-72 (2007).

J. Van Dongen. Emil Rapp, Albert Einstein, and the Canal Ray Experiments on Wave-Particle Duality: Scientific Fraud and Theoretical Bias. *Hist. Studies Phys. Biol. Sci.* **37**(Suppl.), 73-120 (2007).

J. Van Dongen. The Interpretation of the Einstein-Rupp Experiments and Their Influence on the Theory of Quantum Mechanics. *Hist. Studies Phys. Biol. Sci.* **37**(Suppl.), 121-131 (2007).

HISTORY AND TECHNOLOGY. AN INTERNATIONAL JOURNAL
ISSN 0734-1512

G.-P. Gaudilliere. How Pharmaceuticals Became Patentable: The Production and Appropriation of Drugs in the Twentieth Century. *History & Technology* **24**, 99-106 (2007).

J. Slinn. Patents and the UK Pharmaceutical Industry between 1945 and the 1970s. *History & Technology* **24**, 191-205 (2007).

J. Sumner. Status, Scale and Secret Ingredients: The Retrospective Invention of London Porter. *History & Technology* **24**, 289-306 (2007).

HYLE. INTERNATIONAL JOURNAL FOR PHILOSOPHY OF CHEMISTRY
ISSN 1433-5158

J. Schummer, T.I. Spector. The Visual Image of Chemistry: Perspectives from the History of Art and Science. *Hyle* **13**, 3-41 (2007).

M. Blondel-Mégrelis. Liebig Or How to Popularize Chemistry. *Hyle* **13**, 43-54 (2007).

K. Ruthenberg. František Wald (1861-1930). *Hyle* **13**, 55-61 (2007).

E.R. Scerri. The Ambiguity of Reduction. *Hyle* **13**, 67-81 (2007).

J. Sjöström. The Discourse of Chemistry (and Beyond). *Hyle* **13**, 83-97 (2007).

D.R. Lloyd. The Chemistry of Platonic Triangles. *Hyle* **13**, 99-118 (2007).

INTERDISCIPLINARY SCIENCE REVIEW ISSN 0308-0188

J.-F. Allemand., G. Charvin, V. Croquette, G. Lia, D. Bensimon. The Manipulation of Single Biomolecules. *Interdisciplinary Sci. Rev.* **32**, 149-161 (2007).

D.S.G. Pollock. Nitrates, Water and Salt: Maintaining the Fertility of Agriculture. *Interdisciplinary Sci. Rev.* **32**, 350-360 (2007).

JOURNAL OF CHEMICAL EDUCATION ISSN 0021-9581

M.J. Vergne, R.P. Lattimer, D.M. Hercules. A Developmental History of Polymer Mass Spectrometry. *J. Chem. Educ.* **84**, 81-90 (2007).

O. Lombardi, M.G. Labarca. The Philosophy of Chemistry as a New Resource for Chemistry Education. *J. Chem. Educ.* **84**, 187-194 (2007).

W.B. Jensen. How and When Did Avogadro's Name Become Associated with Avogadro's Number? *J. Chem. Educ.* **84**, 223-224 (2007).

M.J. Tinnesand. A History of ChemMatters Magazine. *J. Chem. Educ.* **84**, 578-581 (2007).

A.J. Bard. The Rise of Voltametry: From Polarography to the Scanning Electrochemical Microscope. *J. Chem. Educ.* **84**, 644-650 (2007).

P.T. Kissinger. From the Science Fair to the NASPAQ. *J. Chem. Educ.* **84**, 651-655 (2007).

J.B. Flato. Serendipity: Genesis of the Electrochemical Instrumentation at Princeton Applied Research Corporation. *J. Chem. Educ.* **84**, 656-667 (2007).

W.B. Jensen. The Origin of the s, p, d, f Orbital Labels. *J. Chem. Educ.* **84**, 757-758 (2007).

S.-i. Nagaoka. A Short History of Three Chemical Shifts. *J. Chem. Educ.* **84**, 801-802 (2007).

D.T. Crouse. X-Ray Diffraction and the Discovery of the Structure of DNA. A Tutorial and Historical Account of James Watson and Francis Crick's Use of X-Ray Diffraction in Their Discovery of the Double Helix Structure of DNA. *J. Chem. Educ.* **84**, 803-808 (2007).

M. Gugliotti. Some Observations of Ben Franklin Related to the Stilling of Waves by Oil. *J. Chem. Educ.* **84**, 941-943 (2007).

R.J. Duchovic, J.E. Vilensky. Mustard Gas: Its Pre-World War I History. *J. Chem. Educ.* **84**, 944-948 (2007).

S.C. Rasmussen. The History of Science as a Tool to Identify and Confront Pseudoscience. *J. Chem. Phys.* **84**, 949-951 (2007).

W.B. Jensen. The Origin of the Names Malic, Maleic, and Malonic Acid. *J. Chem. Educ.* **84**, 924-925 (2007).

B. Criswell. Mistake of Having Students Be Mendeleev For Just a Day. *J. Chem. Educ.* **84**, 1140-1144 (2007).

W.B. Jensen. The Origin of the Oxidation-State Concept. *J. Chem. Educ.* **84**, 1418-1419 (2007).

A. Williams. Origin of the Formulas of Dihydrogen and Other Simple Molecules. *J. Chem. Educ.* **84**, 1779-1783 (2007).

W.B. Jensen. The Origin of the Soxhlet Extractor. *J. Chem. Educ.* **84**, 1913-1914 (2007).

MEDICAL HISTORY ISSN 0025-7273

H. Knight, M. Hunter. Robert Boyle's Memoirs for the Natural History of Human Blood (1684): Print, Manuscript and the Impact of Baconianism in Seventeenth-Century Medical Science. *Med. Hist.* **51**, 145-164 (2007).

A.M. Roos. Johan Heinrich Cohausen (1665-1750), Salt Iatrochemistry, and Theories of Longevity in His Satire, *Hermippus Redivivus* (1742). *Med. Hist.* **51**, 181-200 (2007).

F. Kurzer. George S.V. Wills and the Westminster College of Chemistry and

Pharmacy: A Chapter in Pharmaceutical Education in Great Britain. *Med. Hist.* **51**, 477-506 (2007).

NOTES AND RECORDS OF THE ROYAL SOCIETY ISSN 0035-9149

J.S. Rowlinson. John Friend: Physician, Chemist, Jacobite, and Friend of Voltaire's. *Notes & Records* **61**, 109-127 (2007).

M.I. Grossman. Smithson Tennant: Meteorites and the Final Trip to France. *Notes & Records* **61**, 265-283 (2007).

R. Singh. India's Physics and Chemistry Nobel Prize Nominators and Nominees in Colonial and International Context. *Notes & Records* **61**, 333-345 (2007).

PERSPECTIVES ON SCIENCE: HISTORICAL, PHILOSOPHICAL,
SOCIAL ISSN 1063-6145

B. Mladenovic. "Muckraking the History": The Role of the History of Science in Kuhn's Philosophy. *Perspectives on Science* **15**, 261-294 (2007).

P. Achinstein. Atom's Empirical Eve: Methodological Disputes and How to Evaluate Them. *Perspectives on Science* **15**, 359-390 (2007).

PHILOSOPHY OF SCIENCE. OFFICIAL JOURNAL OF THE PHILOSOPHY
OF SCIENCE ASSOCIATION ISSN 0031-8248

W. Goodwin. Scientific Understanding after the Ingold Revolution in Organic Chemistry. *Philosophy of Science* **74**, 386-408 (2007).

H. Wande Wall. Why Water Is Not H₂O, and Other Critique of Essentialist Ontology from the Philosophy of Chemistry. *Philosophy of Science* **74**, 906-919 (2007).

E. Scerri. Reduction and Emergence in Chemistry – Two Recent Approaches. *Philosophy of Science* **74**, 920-931 (2007).

PHYSICS IN PERSPECTIVE ISSN 1422-6944

W.L. Reiter. In Memoriam Ludwig Boltzmann: A Life of Passion. *Physics in Perspective* **9**, 357-374 (2007).

S. Lippincott. A Conversation with Valentine L. Telegdi – Part I. *Physics in Perspective* **9**, 437-467 (2007).

J. Henry. The Physical Tourist – Physics in Edinburgh: From Napier's Bones to Higgs's Boson. *Physics in Perspective* **9**, 468-501 (2007).

PUBLIC UNDERSTANDING OF SCIENCE ISSN 0963-6625

K. Burningham, J. Barnett, R. Clift, W. Wehrmeyer. Industrial Construc-

tions of Publics and Public Knowledge: A Quantitative Investigation of Practice in UK Chemical Industry. **16**, 23-43 (2007).

RESONANCE. JOURNAL OF SCIENCE EDUCATION ISSN 0971-8044

S. Mahadevan. The Legend of Louis Pasteur. *Resonance* **12**(1), 15-22 (2007).

G. Nagendrappa. Pasteur – The Harbinger of Stereochemistry: Louis Pasteur, Tartaric Acid and Stereochemistry. *Resonance* **12**(1), 38-48 (2007).

G. Nagendrappa. Jacobus Henricus van't Hoff. A Short Biographical Sketch. *Resonance* **12**(5), 21-30 (2007).

V. Kumaran. Josiah Willard Gibbs. *Resonance* **12**(7), 4-11 (2007).

K.P.N. Murthy. Josiah Willard Gibbs and His Ensembles. *Resonance* **12**(7), 12-26 (2007).

SCIENCE AND EDUCATION. CONTRIBUTIONS FROM THE HISTORY,
PHILOSOPHY AND SOCIOLOGY OF SCIENCE AND MATHEMATICS
ISSN 0926-7220

J.A. Chamizo. Teaching Modern Chemistry Through 'Recurrent Historical Teaching Models'. *Science & Education* **16**, 197-216 (2007).

C. Tampakis, C. Skordoulis. The History of Teaching Quantum Mechanics in Greece. *Science & Education* **16**, 371-391 (2007).

F. Flores-Camacho, L. Gallegos-Gazares, A. Garritz, A. Garcia-Franco. Incommensurability and Multiple Models: Representations of the Structure of Matter in Undergraduate Chemistry. *Science & Education* **16**, 775-800 (2007).

S. Erduran, A.A. Bravo, R.M. Naaman. Developing Epistemologically Empowered Teachers: Examining the Role of Philosophy of Chemistry in Teacher Education. *Science & Education* **16**, 975-989 (2007).

SCIENCE EDUCATION ISSN 0036-8326

T.L. Nahum, R. Mamlok-Naaman, A. Hofstein, J. Krajcik. Developing a New Teaching Approach for the Chemical Bonding Concept Aligned with Current Scientific and Pedagogical Knowledge. *Science Education* **91**, 579-603 (2007).

M. Watanabe, N. Nunes, S. Mebane, K. Scalise, J. Claesgens. "Chemistry for All, instead of Chemistry just for the Elite": Lessons Learned from Detracked Chemistry Classrooms. *Science Education* **91**, 683-709 (2007).

S. Khan. Model-based Inquiries in Chemistry. *Science Education* **91**, 877-905 (2007).

SCIENCE, TECHNOLOGY AND HUMAN VALUES. JOURNAL OF THE
SOCIETY FOR SOCIAL STUDIES OF SCIENCE ISSN 0162-2439

C. Selin. Expectations and the Emergence of Nanotechnology. *Science, Technology & Human Values* **32**, 196-220 (2007).

STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE. PART A
ISSN 0039-3681

D.J. Stump. Pierre Duhem's Virtue Epistemology. *Studies History & Philosophy Science A* **38**, 149-159 (2007).

S.G. Brush. Predictivism and the Periodic Table. *Studies History & Philosophy Science A* **38**, 256-259 (2007).

V.D. Boantza. Collecting Aims and Ideas: Priestley's Style of Experimental Reasoning. *Studies History & Philosophy Science A* **38**, 506-522 (2007).

STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE.
PART B. STUDIES IN HISTORY AND PHILOSOPHY OF MODERN
PHYSICS ISSN 1355-2198

J. Ladyman, S. Presnel, A.J. Short, B. Groisman. The Connection between Logical and Thermodynamic Irreversibility. *Studies History & Philosophy Science B* **38**, 58-79 (2007).

G.N. Fleming. The Evolution of Pauli's Exclusion Principle. *Studies History & Philosophy Science B* **38**, 202-208 (2007).

M. Morrison. Spin: All Is Not What It Seems. *Studies History & Philosophy Science B* **38**, 529-557 (2007).

SYNTHESE ISSN 0039-7857

K. Aizawa. The Biochemistry of Memory Consolidation: A Model System for the Philosophy of Mind. *Synthese* **155**, 65-98 (2007).

N. Bhushan. What Is a Chemical Property? *Synthese* **155**, 293-305 (2007).

J.L. Ramsey. Calibrating and Constructing Models of Protein Folding. *Synthese* **155**, 307-320 (2007).

R. Hoffmann. What Might Philosophy of Science Look Like If Chemists Built It? *Synthese* **155**, 321-336 (2007).

L. McIntyre. Emergence and Reduction in Chemistry: Ontological or Epistemological Concepts? *Synthese* **155**, 337-343 (2007).

TECHNOLOGY AND CULTURE ISSN 0040-165X

S.M. Horrocks. Industrial Chemistry and Its Changing Patrons at the University of Liverpool, 1926-1951. *Technology & Culture* **48**, 43-66 (2007).

A. van Rooij. Methods for Innovation: The Varying Role of Industrial Research in DSM's Nitrogen Fertilizer Business, 1925-1970. *Technology & Culture* **48**, 550-574 (2007).

B.G. Awty. The Development and Dissemination of the Walloon Method of Ironworking. *Technology & Culture* **48**, 783-803 (2007).

THE CHEMICAL EDUCATOR ISSN 1430-4171

G.B. Kauffman. Fluorine and Diamonds: A Retrospective View of Henri Moissan (1852-1907) on the 100th Anniversary of His Death. *Chemical Educator* **12**, 37-46 (2007).

G.B. Kauffman. The Troubled Story of Polonium: An Early Controversy in Radiochemistry. *Chemical Educator* **12**, 94-101 (2007).

J.-P. Adloff, G.B. Kauffman. Marcellin Berthelot (1827-1907), Chemist, Historian, Philosopher, and Statesman: A Retrospective View on the Centenary of His Death. *Chemical Educator* **12**, 195-206 (2007).

S.H. Bauer. Early Studies of Systems Not in Thermal Equilibrium: Origins of Chemical Lasers. *Chemical Educator* **12**, 219-223 (2007).

J.-P. Adloff, G.B. Kauffman. Stanley Lloyd Miller (1930-2007), Exobiology Pioneer. *Chemical Educator* **12**, 286-291 (2007).

J.A. Orvis, J.N. Orvis. Who's Coming to the Party – The Greeks, The Romans, Or Nobody? A Novel Way to Teach the Proper Use of Greek Prefixes and Roman Numerals in Naming Chemical Compounds. *Chemical Educator* **12**, 314-315 (2007).

J.-P. Adloff, G.B. Kauffman. Pierre-Gilles de Gennes (1932-2007): The Newton of Our Time. *Chemical Educator* **12**, 356-361 (2007).

G. Nebbia, G.B. Kauffman. Prophet of Solar Energy: A Retrospective View of Giacomo Luigi Ciamician (1857-1922), The Founder of Green Chemistry, on the 150th Anniversary of His Birth. *Chemical Educator* **12**, 362-369 (2007).

J.-P. Adloff, G.B. Kauffman. Ernst Otto Fischer (1918-2007), Organometallic Pioneer Extraordinaire. *Chemical Educator* **12**, 421-425 (2007).

J.-P. Adloff, G.B. Kauffman. Gerhard Ertl, 2007 Nobel Chemistry Laureate. *Chemical Educator* **12**, 426-428 (2007).

G.B. Kauffman, H.B. Gray, L.M. Kauffman. Fred Basolo (1920-2007): Dean of American Coordination Chemistry. *Chemical Educator* **12**, 429-442 (2007).

REFERENCES

1. **Toshev, B.V.** History and Philosophy of Chemistry (HPC) Publications in Current Periodicals (2004). *Chemistry* **14**, 571-581 (2005).
2. **Toshev, B.V.** History and Philosophy of Chemistry (HPC) Publications in Current Periodicals (2005). *Chemistry* **15**, 469-481 (2006).
3. **Toshev, B.V.** History and Philosophy of Chemistry (HPC) Publications in Current Periodicals (2006). *Chemistry* **16**, 394-412 (2007).
4. **Toshev, B.V.** New Society in Bulgaria Links Hard and Soft Sciences with Education. *History of Science Society Newsletter* **35**(3), 19 (2006).

ПУБЛИКАЦИИ ПО ИСТОРИЯ И ФИЛОСОФИЯ НА ХИМИЯТА В ТЕКУЩАТА НАУЧНА ПЕРИОДИКА ЗА 2007 ГОДИНА

Резюме. Представена е пълна (навярно) библиография на трудове по история и философия на химията, публикувани в 32 научни списания през 2007 г. Броят на тези статии е 156. За 2004, 2005 и 2006 г. този брой бе съответно 97, 148 и 150. Представен е списък на 48 научни списания, в които такива статии би могло да намерят или са намирили по-рано място.

✉ **Prof. B.V. Toshev,**
Research Laboratory on Chemistry Education and History and Philosophy of
Chemistry,
Department of Physical Chemistry,
University of Sofia,
1 James Bourchier Blvd., 1164 Sofia, BULGARIA
toshev@chem.uni-sofia.bg