

Ljiljana Kolar-Anić, Curriculum Vitae

PERSONAL PARTICULARS

Name: **Ljiljana Kolar-Anić**

Date of birth: **22. 08. 1947.**

Place of birth: **Virovitica, Yugoslavia, Croatia**

Civil Status: **Married. Two children.**

CONTACT

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EDUCATION

Ph.D. Physical Chemistry 1978

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Yugoslavia, Serbia

Doctorate Thesis: *“Equation of State of the Real Gas in the Gravitational Field”*

M.Sc. Physical Chemistry - 1974

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Yugoslavia, Serbia

Master Thesis: *“Mathematical Analysis of the Kinetics of the Complex Chemical Reactions”*

B.Sc. Physical Chemistry - 1970

Faculty of Physical Chemistry, University of Belgrade, Belgrade, Yugoslavia, Serbia

Graduation Thesis: *“Adsorption Characteristics of the Modified Surfaces of Alumina”*

Studies in Physical Chemistry 1966-1970, at that time: Faculty of Sciences, University of Belgrade, Belgrade, Yugoslavia, Serbia

POSTDOCTORAL STUDIES

Postdoctoral Studies – 1978-1979

Service de Chimie Physique II (Department for Theoretical Physical Chemistry) under the government of professor Ilya Prigogine, Universite Libre de Bruxelles, Bruxelles, Belgium

AFFILIATION

1971-present - Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia

RESEARCH EXPERIENCE

Ljiljana Kolar-Anić, *Curriculum Vitae*

Multi-disciplinary research experience extending over related topics in Physical Chemistry (Chemical Kinetics, Statistical Thermodynamics, Nonlinear Dynamics)

TEACHING EXPERIENCE

Profesor of
Statistical Thermodynamics,
Nonlinear Dynamics and
Modeling of Complex Processes

ACADEMIC TITLES

1996 - Full Professor, Faculty of Physical Chemistry, University of Belgrade
1991 - Associated Professor, Faculty of Physical Chemistry, University of Belgrade
1984 - Assistant Professor, Faculty of Physical Chemistry, University of Belgrade
1971 - Assistant, Faculty of Physical Chemistry, University of Belgrade

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Society of Physical Chemists of Serbia
American Chemical Society

OTHER PROFESSIONAL ACTIVITIES

2004 – President of Scientific Committee of the International Conference in Nonlinear Sciences
“Selforganization in Nonequilibrium Systems” accompanying the 7th International
Conference on
Fundamental and Applied Aspects of Physical Chemistry “Physical Chemistry 2004”;
Belgrade, Serbia
1992, 1994, 1996, 1998, 2000, 2002, 2006, 2008 – Member of the Scientific Committee of the
International Conference on Fundamental and Applied Aspects of Physical Chemistry,
Belgrade, Yugoslavia, Serbia

PUBLICATIONS

BOOKS

Ljiljana Kolar-Anić

FOUNDATIONS OF STATISTICAL THERMODYNAMICS

First Edition, Publisher: Fakultet za fizičku hemiju, DP "Studentski trg" Beograd 1995,
In Serbocroat, ISBN: 86-82139-10-3, UDK 536.75(075.8)

Second Edition, Publisher: Univerzitet u Beogradu, Beograd 2000, In Serbocroat
ID = 87177228, UDK 536.758(075.8)

Lj. Kolar-Anić, S. Anić, V. Vukojević

DYNAMICS OF NONLINEAR PROCESSES. FROM MONOTONOUS TO OSCILLATORY
EVOLUTION

Publisher: University of Belgrade, 2005. In Serbian. Approved as university textbook.
ISBN 86-82139-12-3

BOOK CHAPTERS (some of them)

Ž.Čupić, Lj.Kolar-Anić

CONTRACTION OF COMPLEX MODELS BY THE STOICHIOMETRIC NETWORK
ANALYSIS,

Advanced Science and Technology of Sintering, B.D.Stojanović, V.V.Skorokhod, M.V.Nikolić
(Eds), Kluwer Academic/Plenum Publishers, New York, 75-80 (1999).

Lj. Kolar-Anić, S. Anić, Ž. Čupić,

CHARACTERIZATION OF THE CATALYSTS BY MEANS OF AN OSCILLATORY
REACTION

In "Finely Dispersed Particles: Micro-, Nano-, and Atto-Engineering", Eds. A. Spasić and
Jyh-Ping Hsu, CRC (earlier: Marcel Dekker), Inc., New York 2005, pp. 191-216
ISBN: 1-5744-4463-8

Smiljana Jelić, Željko Čupić, Ljiljana Kolar-Anić,

MODELLING OF THE HYPOTHALAMIC-PITUITARY-ADRENAL SYSTEM ACTIVITY
BASED ON THE STOICHIOMETRIC ANALYSIS

In "New Research on Neurosecretory Systems", Eds. E.Romano, S. De Luca, Nova Science
Publishers, Inc., New York 2008, pp. 225-245
ISBN: 978-1-60456-594-2

REVIEWS (some of them)

Ljiljana Kolar-Anić

O PROCESU NUKLEACIJE

J.Serb.Chem.Soc., **48**, 195-206 (1983), in Serbocroat

Lj. Kolar-Anić, Ž. Čupić, S. Anić

MULTISTABILNOST I NELINEARNI DINAMIČKI SISTEMI

Hem. Ind., **52**, 337-342 (1998), In Serbocroat

S. Anić, Lj. Kolar-Anić, V. Vukojević, D. Stanisavljev, M. Radenković

BREJ-LIEBHAFSKI OSCILATORNA REAKCIJA,
Monografija: *Profesoru Draganu Veselinoviću*, S.Anić, D.Marković (eds.)
DFHS i FFH, Beograd 2001, 175-192, In Serbocroat

PUBLICATIONS IN SCIENTIFIC JOURNALS (SCI list)

Lj.Kolar-Anić, S.Veljković, S.Kapor, B.Dubljević
WEIBULL DISTRIBUTION AND KINETICS OF HETEROGENEOUS PROCESSES
J.Chem.Phys, **63**, 663-668 (1975)

Lj.Kolar-Anić, S.Veljković
STATISTICAL FOUNDATIONS OF HETEROGENEOUS KINETICS
J.Chem.Phys., **63**, 669-673 (1975)

Lj.Kolar-Anić, B.Milić
THERMODYNAMIC PROPERTIES OF A NONIDEAL GAS IN HOMOGENEOUS
GRAVITATIONAL FIELD
Physica A, **98A**, 325-336 (1979)

Lj.Kolar-Anić, R.Balescu
ON THE STEADY-STATE SOLUTIONS OF THE KINETICS OF HOMOGENEOUS
NUCLEATION
Chem.Phys., **46**, 281-286 (1980)

Lj.Kolar-Anić
TIME-INDEPENDENT SOLUTIONS OF THE KINETICS OF HOMOGENEOUS
NUCLEATION
Chem.Phys.Letters, **74**, 525-530 (1980)

S.Anić, Lj.Kolar-Anić
SOME NEW DETAILS IN THE KINETIC CONSIDERATIONS OF THE OSCILLATORY
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S.Anić, Lj.Kolar-Anić
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POTENTIOMETRIC METHOD WITH Pt AND Ag⁺/S²⁻ INDICATOR ELECTRODE
Ber.Bunsenges.Phys.Chem., **90**, 1084-1086 (1986)

S.Anić, Lj.Kolar-Anić
THE INFLUENCE OF POTASSIUM IODATE ON HYDROGEN PEROXIDE
DECOMPOSITION IN BRAY-LIEBHAFSKY REACTION
Ber.Bunsenges.Phys.Chem., **91**, 1010-1013 (1987)

S.Anić, Lj.Kolar-Anić
KINETIC ASPECT OF THE BRAY-LIEBHAFSKY OSCILLATORY REACTION
J.Chem.Soc.,Faraday Trans.I, **84**, 3413-3421 (1988).

S.Anić, D.Stanisavljev, G.Krnajski Belovljjev, Lj.Kolar-Anić
EXAMINATION OF THE TEMPERATURE VARIATIONS ON THE BRAY-LIEBHAFSKY

OSCILLATORY REACTION

Ber.Bunsenges.Phys.Chem., **93**, 488-491 (1989).

Lj.Kolar-Anić, V.Dondur

THE AVERAGE RATE CONSTANT OF THE OVERALL PROCESS OF DESORPTION FROM THE ENERGETICALLY HETEROGENEOUS SURFACE

Z.phys.Chemie, Leipzig, **270**, 737-744 (1989).

Dj.Mišljenović, Lj.Kolar-Anić

FIRST INTEGRAL METHOD FOR EVALUATION OF THE RELATIONS BETWEEN COMPONENTS OF COMPLEX REACTIONS SYSTEMS

Croatica Chemica Acta, **63**, 693-699 (1990).

Lj.Kolar-Anić, Dj.Mišljenović, D.Stanisavljev, S.Ančić

ON THE APPLICABILITY OF THE SCHMITZ'S MODEL TO DILUTION-REINITIATED OSCILLATIONS IN THE BRAY-LIEBHAFSKY REACTION

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Lj.Kolar-Anić, D.Stanisavljev, G.Krnajski Belovljjev, Ph.Peeters, S.Ančić

THE FIRST MAXIMUM OF THE IODIDE CONCENTRATION IN THE BRAY-LIEBHAFSKY REACTION

Computers Chem., **14**, 345-347 (1990).

S.Ančić, Lj.Kolar-Anić, D.Stanisavljev, N.Begović, D.Mitić

DILUTION REINITIATED OSCILLATIONS IN THE BRAY-LIEBHAFSKY SYSTEM

React.Kinet.Catal.Lett., **43**, 155-162 (1991).

Lj.Kolar-Anić, Guy Schmitz,

MECHANISM OF THE BRAY-LIEBHAFSKY REACTION: EFFECT OF THE OXIDATION OF IODOUS ACID BY HYDROGEN PEROXIDE

J.Chem.Soc.Faraday Trans., **88**, 2343-2349 (1992).

Lj.Kolar-Anić

LANGMUIR AND BET ADSORPTION ISOTHERMS. STATISTICAL-MECHANICAL DERIVATION

J.Serb.Chem.Soc. **59**, 433-440 (1994).

Lj.Kolar-Anić, Dj.Mišljenović, S.Ančić, G.Nicolis

THE INFLUENCE OF THE REDUCTION OF IODATE ION BY HYDROGEN PEROXIDE ON THE MODEL OF THE BRAY-LIEBHAFSKY REACTION

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Ž.Čupić, S.Ančić, A.Terlecki-Baričević, Lj.Kolar-Anić

THE BRAY-LIEBHAFSKY REACTION. THE INFLUENCE OF SOME POLYMERS BASED ON POLY(4-VINILPIRIDINE)

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A.Terlecki-Baričević, Ž.Čupić, S.Ančić, Lj.Kolar-Anić, S.Mitrovski, S.Ivanović

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 $\text{IO}_3^- + \text{I}^- + 2\text{H}^+ = \text{HIO} + \text{HIO}_2$

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J.Serb.Chem.Soc. **61**, 887-891 (1996).

Slobodan Anić, Ljiljana Kolar-Anić, Endre Körös
METHODS TO DETERMINE ACTIVATION ENERGIES FOR THE TWO KINETIC
STATES OF THE OSCILLATORY BRAY-LIEBHAFSKY REACTION

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Mirjana Radenković, Guy Schmitz and Ljiljana Kolar-Anić
SIMULATION OF IODINE OXIDATION BY HYDROGEN PEROXIDE IN ACID MEDIA,
ON THE BASIS OF THE BRAY-LIEBHAFSKY REACTION

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Ljiljana Kolar-Anić, Željko Čupić, Slobodan Anić, Guy Schmitz
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OSCILLATORY REACTION

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S.Anić, D.Stanisavljev, Ž.Čupić, M.Radenković, V.Vukojević, Lj.Kolar-Anić
THE SELFORGANIZATION PHENOMENA DURING CATALYTIC DECOMPOSITION OF
HYDROGEN PEROXIDE

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V.Vukojević, N.Pejić, D.Stanisavljev, S.Anić, Lj.Kolar-Anić
DETERMINATION OF Cl^- , Br^- , I^- , MALONIC ACID AND QUERCETIN BY PERTURBATION
OF A NONEQUILIBRIUM STATIONARY STATE IN THE BRAY-LIEBHAFSKY REACTION

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Ž.Čupić, Lj.Kolar-Anić
CONTRACTION OF THE MODEL FOR THE BRAY-LIEBHAFSKY OSCILLATORY
REACTION BY ELIMINATING INTERMEDIATE I_2O

J. Chem. Phys., **110**, 3951-3954 (1999).

V. Vukojević, S. Anić, Lj. Kolar-Anić
INVESTIGATION OF THE DYNAMIC BEHAVIOR OF THE BRAY-LIEBHAFSKY REACTION
IN THE CSTR. DETERMINATION OF BIFURCATION POINTS

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G.Schmitz, Lj.Kolar-Anić, S.Anić, Ž. Čupić
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THE BRAY-LIEBHAFSKY OSCILLATORY REACTION. KINETIC INVESTIGATIONS IN
REDUCTION AND OXIDATION PATHWAYS BASED ON HYDROGEN
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S.Blagojević, N.Pejić, S.Anić, Lj.Kolar-Anić
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DECOMPOSITION
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N.Pejić, Ž. Čupić, S.Anić, V.Vukojević, Lj.Kolar-Anić
THE OSCILLATORY BRAY-LIEBHAFSKY REACTION AS A MATRIX FOR ANALYZING
ENZYME AND POLYMERIC CATALYSTS FOR HYDROGEN PEROXIDE DECOMPOSITION
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V. Vukojević, N. Pejić, D. Stanisavljev, S. Anić, Lj. Kolar-Anić
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PERTURBATION OF A NON-EQUILIBRIUM STATIONARY STATE IN THE BRAY-
LIEBHAFSKY REACTION SYSTEM
Die Pharmazie, **56** (2001) III.

V. Vukojević, S. Anić, Lj. Kolar-Anić
INVESTIGATION OF THE DYNAMIC BEHAVIOR OF THE BRAY-LIEBHAFSKY REACTION
IN THE CSTR. PROPERTIES OF THE SYSTEM EXAMINED BY PULSED PERTURBATIONS
WITH I⁻
Phys.Chem.Chem.Phys., **4** (2002) 1276-1283.

Lj. Kolar-Anić, Ž. Čupić, S. Anić, B. Adnadjević, V. Vukojević, J. Ćirić
ANALYSIS OF A MODEL FOR N₂O DECOMPOSITION OVER CU-ZSM-5 IN AN OPEN
REACTOR
Environ Sci. and Pollution Res., **3** (2002) 149-150.

Nataša Pejić, Slobodan Anić, Vesna Kuntić, Vladana Vukojević, Ljiljana Kolar-Anić
KINETIC DETERMINATION OF MICROQUANTITIES OF RUTIN BY PERTURBATION
OF THE BRAY-LIEBHAFSKY OSCILLATORY REACTION IN AN OPEN SYSTEM
Mikrochimica Acta (Microchimica Acta), **143** (2003) 261-267.

N. Begović, Z. Marković, S. Anić and Lj. Kolar-Anić
COMPUTATIONAL INVESTIGATION OF HIO AND HIO₂ ISOMERS
J. Phys. Chem. A, **108** (2004) 651.

N. Begović, Z. Marković, S. Anić and Lj. Kolar-Anić
MODELLING THE FORMATION OF BIOGENIC IODINE IN MARINE AEROSOLS
Environmental Chemistry Letters, **2(2)**, (2004) 65-69.

N. Pejić, Sl. Blagojević, S. Anić, V. Vukojević, Lj. Kolar-Anić
MICROQUANTITATIVE DETERMINATION OF HESPERIDIN BY PULSE
PERTURBATION OF THE OSCILLATORY REACTION SYSTEM
Anal. Bioanal. Chem., 381 (2005) 775-780.

Ana Popović-Bijelić, Goran Bijelić, Ljiljana Kolar-Anić, Vladana Vukojević,
NUMERICALLY SIMULATED PH-INDUCED REACTIVATION OF CATALYTIC
ACTIVITY OF HORSE RADISH PEROXIDASE,
Ann. N.Y. Acad. Sci. 1048 (2005): 457-460.

S. Jelić, Ž. Čupić, Lj. Kolar-Anić,
MATHEMATICAL MODELING OF THE HYPOTHALAMIC-PITUITARY-ADRENAL
SYSTEM ACTIVITY.
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M. Milošević, N. Pejić, Ž. Čupić, S. Anić, Lj. Kolar-Anić
EXAMINATIONS OF CROSS-LINKED POLYVINILPYRIDINE IN OPEN REACTOR
Materials Sciences Forum, **494** (2005) 369-374

Bojan Janković, Borivoj Adnadević, Jelena Jovanović, Dragica Minić, Ljiljana Kolar-Anić
THERMOGRAVIMETRIC ANALYSIS OF SUPERABSORBING POLYACRILIC
HYDROGEL
Materials Sciences Forum, **494** (2005) 193-198

N. Potkonjak, Lj. Kolar-Anić, T. Potkonjak, S. N. Blagojević, S. Anić
OSCILLATORY PHENOMENA DURING ANODIC COPPER ELECTRODISOLUTION IN
TRIFLUOROACETIC ACID SOLUTION
Materials Sciences Forum, **518** (2006) 301-306

Ljiljana Kolar-Anić, Slavica Blagojević, Nataša Pejić, Nebojša Begović, Stevan Blagojević
Slobodan Anić
NEW EVIDENCE OF TRANSIENT COMPLEX OSCILLATIONS IN A CLOSED, WELL-
STIRRED BELOUSOV-ZHABOTINSKY SYSTEM
J.Serb.Chem.Soc. **71**, (2006) 603-610.

N. Pejić, Lj. Kolar-Anić, S. Anić, D. Stanisavljev,
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FORMS BY PULSE PERTURBATION TECHNIQUE
J. Pharm. Biomed. Analysis, **41** (2006) 610-615.

Guy Schmitz, Ljiljana Kolar-Anić, Slobodan Anić, Tomislav Grozdić, Vladana Vukojević
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N. Pejić, S. Blagojević, S. Anić, V. Vukojević, M. Mijatović, J. Ćirić, Z. Marković, S.
Marković, Lj. Kolar-Anić,

KINETIC DETERMINATION OF MORPHINE BY MEANS OF BRAY-LIEBHAFSKY OSCILLATORY REACTION SYSTEM USING ANALYTE PULSE PERTURBATION TECHNIQUE,

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B. Adnađević, B. Janković, Lj. Kolar-Anić, D. Minić

NORMALIZED WEIBULL DISTRIBUTION FUNCTION FOR MODELLING THE KINETICS OF NON-ISOTHERMAL DEHYDRATION OF EQUILIBRIUM SWOLLEN POLY(ACRYLIC ACID) HYDROGEL

Chemical Engineering Journal 130 (2007) 11-17

N. Pejić, S. Blagojević, J. Vukelić, Lj. Kolar-Anić, S. Anić,

ANALYTE PULSE PERTURBATION TECHNIQUE FOR THE DETERMINATION OF 6-MONOACETYLMORPHINE IN SEIZED STREET DRUG SAMPLE,

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Nataša Pejić, Slavica Blagojević, Slobodan Anić and Ljiljana Kolar-Anić,

DETERMINATION OF ASCORBIC ACID IN PHARMACEUTICAL DOSAGE FORMS AND URINE BY MEANS OF AN OSCILLATORY REACTION SYSTEM USING THE PULSE PERTURBATION TECHNIQUE,

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S. Anić, M. Kostić, M. Ninić, S. Blagojević, Lj. Kolar-Anić

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A. Popović-Bijelić, G. Bijelić, Lj. Kolar-Anić, V. Vukojević

TEMPERATURE DEPENDENCE OF OXYGEN EVOLUTION THROUGH CATALASE-LIKE ACTIVITY OF HORSERADISH PEROXIDASE

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G. Schmitz, Lj. Kolar-Anić

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A. Z. Ivanović, Ž. D. Čupić, M. M. Janković, Lj. Z. Kolar-Anić, S. R. Anić,

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N. Pejić, J. Maksimović, D. Ribić, Lj. Kolar-Anić

DYNAMIC STATES OF THE BRAY-LIEBHAFSKY REACTION WHEN SULFURIC ACID IS THE CONTROL PARAMETER

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S. M. Blagojević, S. R. Anić, Ž. D. Čupić, N. D. Pejić, Lj. Z. Kolar-Anić

TEMPERATURE INFLUENCE ON THE MALONIC ACID DECOMPOSITION IN THE BELOUSOV-ZHABOTINSKY REACTION

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A. Z. Ivanović, Ž. D. Čupić, Lj. Z. Kolar-Anić, M. M. Janković, S. R. Anić

LARGE DEVIATION SPECTRA OF CHAOTIC TIME SERIES FROM BRAY-LIEBHAFSKY REACTION

Russian J. Phys. Chem. A, **83** (2009) 1526-1530

Smiljana Jelić, Željko Čupić, Ljiljana Kolar-Anić, Vladana Vukojević,

PREDICTIVE MODELING OF THE HYPOTHALAMIC-PITUITARY-ADRENAL (HPA) FUNCTION. DYNAMIC SYSTEMS THEORY APPROACH BY STOICHIOMETRIC NETWORK ANALYSIS AND QUENCHING SMALL AMPLITUDE OSCILLATIONS

International Journal of Nonlinear Sciences & Numerical Simulation **10**(10), (2009) 1505-1526

LECTURES AT INTERNATIONAL SCIENTIFIC MEETINGS

Ljiljana Kolar-Anić

STOCHASTIC ANALYSIS OF THE PROCESS OF DESORPTION FROM THE ENERGETICALLY HETEROGENEOUS SURFACE

MATH/CHEM/COMP 1988, Proceedings of an International Course and Conference on the Interfaces Between Mathematics, Chemistry and Computer Sciences, A. Graovac (Ed.), Studies in Physical and Theoretical Chemistry, Volume 63, Elsevier, Amsterdam 1989., pages 379-386.

Lj. Kolar-Anić, S. Anić

AUTOCATALYSIS AND AUTOINHIBITION. OSCILLATORY REACTIONS

New Challenges in Catalysis, P. Putanov (Ed.),
SANU, Novi Sad 1997, p.139-162

Ljiljana Kolar-Anić

LOCAL AND GLOBAL PERTURBATIONS OF THE SELFORGANIZED SYSTEMS

Ljiljana Kolar-Anić, *Curriculum Vitae*

The invited lecture at the conference “Ecological Sequences in Balkan Countries due to NATO bombardments in Yugoslavia”, Athens, 22-23 March, 2001.