



## Universitatea Babe -Bolyai Competi ia Excelen ei 2010 Model de completare Dosar individual

**Not : Toate datele se refer la perioada 2005-2009**

<b>Nume, prenume, grad did.</b>	<b>NEDA ZOLTAN</b>
<b>Facultatea, Catedra</b>	Facultatea de Fizica, Catedra de Fizica Teoretica
<b>Domeniul tiin ific</b>	Fizica Statistica
<b>Adresa paginii web personale</b>	<a href="http://www.phys.ubbcluj.ro/~zneda">www.phys.ubbcluj.ro/~zneda</a>
<b>Adresa e-mail</b>	<a href="mailto:zneda@phys.ubbcluj.ro">zneda@phys.ubbcluj.ro</a>

### **Criteriul I – Output (60%)**

**total punctaj: 3048.3+18.34+16.66+5+30.66=3118.96**

- |   |             |            |
|---|-------------|------------|
| 1. Articole tiin ifice publicate în reviste indexate ISI (cu men ionare factorului de impact în cazul celor cotate):                                  | 25 articole | 3048.3 pct |
| In cazul in care nu are Factor de impact ISI :  | 3 articol   | 18.34 pct  |
| 3. Articole tiin ifice publicate în reviste indexate în BDI (din lista CNCSIS) si în reviste române ti recunoscute de CNCSIS tip B i B <sup>+</sup> : | 5 articole  | 16.66 pct  |
| 4. Alte articole tiin ifice publicate în reviste cu referen i:  | 2 articole  | 5 pct      |
| 6. C r i tiin ifice publicate în edituri na ionale acreditate   | 2 carti     | 30.66 pct  |

### **Criteriul II – Prestigiu profesional 30%**

**total punctaj:450+5120+143+134+24.4+20+80+40 = 6011.4**

- |  |                      |                |
|--|----------------------|----------------|
| 1. Cit ri ale articolelor ISI listate la Criteriul I                                   | 45 citari            | 450 pct        |
| 3. Cit ri în perioada 05-09 ale articolelor anterioare anului 2005                     | 512 citari           | 5120 pct       |
| 4. Distinc ii, premii i alte recunoa teri na ionale i interna ionale                   | 1 distinc tie        | 10 pct         |
| 5. Studen i na ionali atra i   |                      | total: 143 pct |
| - Îndrumare lucrari de licent (num r lucr ri sus inute)                                | 12 lucrari licenta   | 36 pct         |
| - Îndrumare lucr ri de diserta ie (num r lucr ri sus inute)                            | 9 lucrare dizertatie | 36 pct         |
| - doctoranzi   | 6                    | 36 pct         |
| - doctorate  | 2                    | 20 pct         |
| - doctorate cotutela   | 1                    | 15 pct         |
| 10. Particip ri la programe/granturi de cercetare nationale                            | 2                    | 134 pct        |
| 12. Coordon ri de programe/granturi finan ate din surs na ional                        | 2                    | 24.4 pct       |
| 13. Profesor invitat la universitati de prestigiu, cu titlu oficial                    | 1                    | 20 pct         |
| 15. Conferin e invitate interna ionale   | 4                    | 80 pct         |
| 16. Membru în comitete de organizare sau tiin ifice ale unor conferin e interna ionale | 2                    | 40 pct         |

**Total punctaj criteriul I si II: 0,6 x 3118.96 + 0,3 x 6011.4 = 1871.37 + 1803.42 = 3674.79pct**

Data:

Semn tura:

**Certific validitatea datelor prezentate**

Sef de catedr ,



ROMÂNIA  
UNIVERSITATEA BABE -BOLYAI CLUJ-NAPOCA

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RECTORATUL

## Universitatea Babe -Bolyai Competi ia Excelen ei 2010

### Dosar individual

**Not : Toate datele se refer la perioada 2005-2009**

<b>Nume, prenume, grad did.</b>	<b>NEDA ZOLTAN, PROFESOR UNIV.</b>
<b>Facultatea, Catedra</b>	Fizica, Catedra de Fiz. Teoretica si Computationala
<b>Domeniul tiin ific</b>	Fizica, fizica statistica si computationala
<b>Adresa paginii web personale</b>	<a href="http://www.phys.ubbcluj.ro/~zneda">www.phys.ubbcluj.ro/~zneda</a>
<b>Adresa e-mail</b>	<a href="mailto:zoltan.neda@phys.ubbcluj.ro">zoltan.neda@phys.ubbcluj.ro</a>

### **Criteriul I – Output      60% (aplicat la total punctaj Criteriul I – Output)**

#### **1. Articole tiin ifice publicate în reviste indexate ISI (cu men ionare factorului de impact în cazul celor cotate)**

Se acorda 30 puncte pentru fiecare articol si se tine cont de num rul de autori.

Formula de calcul:       $(30 / \text{număr de autori}) \times \text{Factor de impact ISI} \times 10$

1.Title: Spring-block models and highway traffic

Author(s): Neda Z, Jarai-Szabo F, Kaptalan E, et al.

Source: CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 11 Issue: 4 Pages: 3-10

Published: DEC 2009

IF: 0.0668

Punctaj: 5

2. Title: Correlation clustering on networks

Author(s): Neda Z, Sumi R, Ercsey-Ravasz M, Varga M., Molnar B, Cseh Gy

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL Volume: 42 Issue: 34 Article

Number: 345003 Published: AUG 28 2009

IF: 1.54

Punctaj: 77

3. Title: Nontrivial spontaneous synchronization

Author(s): Sumi R, Neda Z, Tunyagi A, Boda S, Szasz Cs

Source: PHYSICAL REVIEW E Volume: 79 Issue: 5 Article Number: 056205 Part: Part 2 Published: MAY

2009

IF: 2.508

Punctaj: 150.48

4. Title: Stochastic optimization of spin-glasses on cellular neural/nonlinear network based processors

Author(s): Ercsey-Ravasz M, Roska T, Neda Z

Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 388 Issue: 6 Pages:

1024-1030 Published: MAR 15 2009

IF: 1.441

Punctaj: 144.1

5. Title: Cellular Neural Networks for NP-Hard Optimization

Author(s): Ercsey-Ravasz M, Roska T, Neda Z

Source: EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING Article Number: 646975 Published:

2009

IF: 1.055

Punctaj: 105.5

6. Title: MOLECULAR DYNAMICS APPROACH TO CORRELATION CLUSTERING

Author(s): Sumi R, Neda Z

Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS C Volume: 19 Issue: 9 Pages: 1349-1358

Published: SEP 2008

IF: 0.728

Punctaj: 109.2

7. Title: Collective behavior of electronic fireflies

Author(s): Ercsey-Ravasz M, Sarkozi Z, Neda Z, Sarkozi Zs, Tunyagi A, Burda I

Source: EUROPEAN PHYSICAL JOURNAL B Volume: 65 Issue: 2 Pages: 271-277 Published: SEP 2008

IF: 1.568

Punctaj: 94.08

8. Title: Spring-block type models for crack propagation in glass plates

Author(s): Horvath EA, Jarai-Szabo F, Neda Z

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 9 Pages: 2433-2437 Published: SEP 2008

IF: 0.577

Punctaj: 57.7

9. Title: A novel kinetic Monte Carlo method for epitaxial growth

Author(s): Deak R, Neda Z, Barna PB

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 9 Pages: 2445-2450 Published: SEP 2008

IF: 0.577

Punctaj: 57.7

10. Title: Synchronization of multi-mode pulse coupled stochastic oscillators

Author(s): Sumi RZ, Neda Z

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 9 Pages: 2455-2460 Published: SEP 2008

IF: 0.577

Punctaj: 86.55

11. Title: Statistical physics on cellular neural network computers

Author(s): Ercsey-Ravasz M, Roska T, Neda Z

Source: PHYSICA D-NONLINEAR PHENOMENA Volume: 237 Issue: 9 Pages: 1226-1234 Published: JUL 1 2008

IF: 1.926

Punctaj: 192.6

12. Title: A simple kinetic Monte Carlo approach for epitaxial submonolayer growth

Author(s): Deak R, Neda Z, Barna PB

Source: COMMUNICATIONS IN COMPUTATIONAL PHYSICS Volume: 3 Issue: 4 Pages: 822-833 Published: APR 2008

IF: 2.33

Punctaj: 233

13. Title: On the size distribution of Poisson Voronoi cells

Author(s): Ferenc JS, Neda Z

Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 385 Issue: 2 Pages: 518-526 Published: NOV 15 2007

IF: 1.441

Punctaj: 216.15

14. Title: Shake-induced order in nanosphere systems

Author(s): Jarai-Szabo F, Neda Z, Astilean S, Farcau C, Kuttesch A

Source: EUROPEAN PHYSICAL JOURNAL E Volume: 23 Issue: 2 Pages: 153-159 Published: JUN 2007

IF: 1.943

Punctaj: 116.58

15. Title: Wealth distribution in modern and medieval societies

Author(s): Santos MA, Coelho R, Hegyi G, Neda Z, Ramasco J

Conference Information: Workshop on Complex Systems - New Trends and Expectations, JUN 05-09, 2006 Santander, SPAIN

Source: EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS Volume: 143 Pages: 81-85 Published: APR 2007

IF: 0.689

Punctaj: 41.34

16. Title: Wealth distribution and Pareto's law in the Hungarian medieval society  
 Author(s): Hegyi G, Neda Z, Santos MA  
 Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 380 Pages: 271-277  
 Published: JUL 1 2007  
 IF: 1.441 Punctaj: 144.1
17. Title: Disorder-driven phase transition in a spring-block type magnetization model  
 Author(s): Kovacs K, Neda Z  
 Source: PHYSICS LETTERS A Volume: 361 Issue: 1-2 Pages: 18-23 Published: JAN 22 2007  
 IF: 2.174 Punctaj: 326.1 ]
18. Title: Perspectives for Monte Carlo simulations on the CNN universal machine  
 Author(s): Ercsey-Ravasz M, Roska T, Neda Z  
 Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS C Volume: 17 Issue: 6 Pages: 909-922  
 Published: JUN 2006  
 IF: 0.728 Punctaj: 72.8
19. Title: Spring-block type models for capillarity-driven self-organized nanostructures  
 Author(s): Jarai-Szabo F, Kuttesch A, Astilean S, Neda Z, Chakrapami N, Ajayan PM, Vajtai R  
 Conference Information: Colloquium on Fungi as Model Organisms in Research and Biotechnology III, SEP 02, 2005 Olomouc, CZECH REPUBLIC  
 Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 3 Pages: 1083-1087 Published: JUN 2006  
 IF: 0.577 Punctaj: 24.73
20. Title: Critical behavior of a spring-block model for magnetization  
 Author(s): Kovacs K, Neda Z  
 Conference Information: Colloquium on Fungi as Model Organisms in Research and Biotechnology III, SEP 02, 2005 Olomouc, CZECH REPUBLIC  
 Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 3 Pages: 1093-1097 Published: JUN 2006  
 IF: 0.577 Punctaj: 86.55
21. Title: Stochastic simulations on the cellular wave computers  
 Author(s): Ercsey-Ravasz M, Roska T, Neda Z  
 Source: EUROPEAN PHYSICAL JOURNAL B Volume: 51 Issue: 3 Pages: 407-411 Published: JUN 2006  
 IF: 1.568 Punctaj: 156.8
22. Title: Phase transition in an optimal clusterization model  
 Author(s): Neda Z, Florian R, Ravasz M, Libal A, Gyorgyi G  
 Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 362 Issue: 2 Pages: 357-368 Published: APR 1 2006  
 IF: 1.441 Punctaj: 86.46
23. Title: A spring-block model for Barkhausen noise  
 Author(s): Kovacs K, Brechet Y, Neda Z  
 Source: MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING Volume: 13 Issue: 8 Pages: 1341-1352 Published: DEC 2005  
 IF: 1.388 Punctaj: 138.8
24. Title: A family-network model for wealth distribution in societies  
 Author(s): Coelho R, Neda Z, Ramasco JJ, Santos MA  
 Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 353 Pages: 515-528  
 Published: AUG 1 2005  
 IF: 1.441 Punctaj: 108.08
25. Title: Understanding self-assembled nanosphere patterns  
 Author(s): Jarai-Szabo F, Astilean S, Neda Z  
 Source: CHEMICAL PHYSICS LETTERS Volume: 408 Issue: 4-6 Pages: 241-246 Published: JUN 17 2005  
 IF: 2.169 Punctaj: 216.9

**Subtotal: 3048.3**

## 2. Articole științifice publicate în ISI proceedings

Se acorda 30 puncte pentru fiecare articol și se ține cont de numărul de autori.

Formula de calcul:  $(30 / \text{număr de autori}) \times \text{Factor de impact ISI} \times 10$

### In cazul in care nu are Factor de impact ISI

Se acorda 20 puncte pentru fiecare articol și se ține cont de numărul de autori.

Formula de calcul:  $20 / \text{număr de autori}$

1. Title: Cellular neural networks for NP-hard optimization

Author(s): Ercsey-Ravasz M, Roska T, Neda Z

Conference Information: 11th International Workshop on Cellular Neural Networks and Their Applications, JUL 14-16, 2008 Univ Santiago de Compostela, Santiago de Compostela, SPAIN

Source: 2008 11TH INTERNATIONAL WORKSHOP ON CELLULAR NEURAL NETWORKS AND THEIR APPLICATIONS Pages: 52-56 Published: 2008

Punctaj: 6.67

2. Title: Random number generator and Monte Carlo type simulations on the CNN-UM

Author(s): Ercsey-Ravasz M, Roska T, Neda Z

Conference Information: 10th IEEE International Workshop on Cellular Neural Networks and Their Applications, AUG 28-30, 2006 Istanbul, TURKEY

Source: PROCEEDINGS OF THE 2006 10TH IEEE INTERNATIONAL WORKSHOP ON CELLULAR NEURAL NETWORKS AND THEIR APPLICATIONS Pages: 47-52 Published: 2006

Punctaj: 6.67

3. Title: Controlled deposition of photonic polystyrene-nano sphere films - art. no. 678500

Author(s): Kuttesch A, Farcau C, Neda Z, Astilean S,

Conference Information: 8th Conference on Optics, SEP 04-07, 2006 Sibiu, ROMANIA

Source: ROMOPTO 2006: Eighth Conference on Optics Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 6785 Pages: 07850-07850

Published: 2007

Punctaj: 5

**Subtotal: 18.34**

## 3. Articole științifice publicate în reviste indexate în BDI (din lista CNCSIS) și în reviste românești recunoscute de CNCSIS tip B și B<sup>+</sup>

Se acorda 10 puncte pentru fiecare articol și se ține cont de numărul de autori.

Formula de calcul:  $10 / \text{număr de autori}$

1. M. Ercsey-Ravasz, T. Roska and Z. Neda, "Analog cellular Computers - A new computational paradigm"; Muszaki Szemle, vol. 42, pp. 19-25 (2008)

Punctaj: 3.33

2. K. Kovacs and Z. Neda, "Disorder-Induced Phase Transition in a Spring-Block type magnetization model"; Muszaki Szemle, vol. 42, pp. 26-30 (2008)

Punctaj: 5

3. M. Ercsey-Ravasz, Z. Neda, R. Florian and A. Libal, "Coalition formation and phase-transition in frustrated networks"; Muszaki Szemle, vol. 42, pp. 3-8 (2008)

Punctaj: 2.5

4. I. Balogh, B. Nagy and Z. Neda; "The analysis of stock market indexes with the method of inverse statistics"; Forumul Economic, vol. 11 (80), pp. 55-68 (2008)

Punctaj: 3.33

5. Z. Neda, M. Ravasz, A. Balog and A. Derzsi, "The species abundances distribution in a neutral community model", *Studia Universitatis Babes-Bolyai, Physica L*, 2, 63-79 (2005)

Punctaj: 2.5

**Subtotal: 16.66**

**4. Alte articole tiin ifice/capitole publicate în reviste/volume cu referen i (peer-reviewed)**

Se acorda 5 puncte pentru fiecare lucrare si se tine cont de num rul de autori.

Formula de calcul:  $5 / \text{număr de autori}$

- 1, A. Szasz and Z. Neda; Halozati Ping-Pong, - avagy a fenysebesseg szamitogepes merese (Ping-Pong on the Net, - or the computational measurement of the speed of light), *Fizikai Szemle*, Aprilis (4) , pp. 132-133, 2007

Punctaj 2.5

2. Z. Néda and E. Káptalan, *A sokaság ritmusa (The rhythm of the society)*, *Fizikai Szemle*, Szeptember 2009, pp. 301-306

Punctaj 2.5

**Subtotal: 5**

**5. C r i tiin ifice publicate în edituri interna ionale**

Formula de calcul:  $\text{num r de pagini} / \text{număr de autori}$

**6. C r i tiin ifice publicate în edituri na ionale acreditate**

Se acorda 20 puncte pentru fiecare 100 pagini si se tine cont de num rul de autori.

Formula de calcul:  $[(\text{num r de pagini} / 100) \times 20] / \text{număr de autori}$

1. Z. Néda, "A Fényre szabott Fizika (...vagy A speciális relativitás elmélete)" (Special Relativity from a new perspective) *Presa Universitara* (2008) 110 pagini:

Punctaj: 22

2. Z. Néda, A. Libál and K. Kovács; "Elemi Kvantummechanika" (Introductory Quantum Mechanics), *Univ. Press of Cluj*, 2005 ISBN 973-610-399-4 130 pagini

Punctaj 8.66

**Subtotal: 30.66**

## 7. Editor de volume publicate în edituri naționale și internaționale

### - edituri naționale

Se acorda 15 puncte pentru fiecare 100 pagini și se ține cont de numărul de editori.

Formula de calcul:  $[(\text{număr de pagini} / 100) \times 15] / \text{număr de editori}$

### - edituri internaționale

Se acorda 30 puncte pentru fiecare 100 pagini și se ține cont de numărul de editori.

Formula de calcul:  $[(\text{număr de pagini} / 100) \times 30] / \text{număr de editori}$

## 8. Brevete internaționale

Se acorda 20 puncte pentru fiecare brevet.

Formula de calcul:  $20 / \text{număr de autori}$

## 9. Brevete naționale

Se acorda 10 puncte pentru fiecare brevet și se ține cont de numărul de autori.

Formula de calcul:  $10 / \text{număr de autori}$

## 10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia

Formula de calcul:  $\text{valoarea în RON} / 10.000$

## 11. Realizări artistice naționale și internaționale (Domeniul Arte)

(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

**PUNCTAJ TOTAL CRITERIUL I: 3118.9**

## **Criteriaul II – Prestigiu profesional 30% (aplicat la total punctaj Criteriaul II)**

### 1. Citiri ale articolelor ISI listate la Criteriaul I

Formula de calcul:  $\text{număr citiri} \times 10 \times \text{factor impact ISI al revistei în care este publicat articolul citat}$

**Title: On the size distribution of Poisson Voronoi cells**

**Author(s): Ferenc JS, Neda Z**

**Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 385 Issue: 2**

**Pages: 518-526 Published: NOV 15 2007**

**IF:**

**Citari: 8**

**Punctaj: 80**

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1. Title: Poissonian and non-Poissonian Voronoi diagrams with application to the aggregation of molecules

Author(s): Zaninetti L

Source: PHYSICS LETTERS A Volume: 373 Issue: 36 Pages: 3223-3229 Published: AUG 31 2009

2. Title: Shaping large Poisson Voronoi cells in two dimensions

Author(s): Gabrielli A

Source: JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: N07001

Published: JUL 2009

3. Title: The Hydrogen Evolution Reaction at a Silver Nanoparticle Array and a Silver Macroelectrode Compared: Changed Electrode Kinetics between the Macro- and Nanoscales

Author(s): Campbell FW, Belding SR, Baron R, et al.

Source: JOURNAL OF PHYSICAL CHEMISTRY C Volume: 113 Issue: 33 Pages: 14852-14857 Published: AUG 20 2009

4. Title: Cell size distribution in a random tessellation of space governed by the Kolmogorov-Johnson-Mehl-Avrami model: Grain size distribution in crystallization

Author(s): Farjas J, Roura P

Source: PHYSICAL REVIEW B Volume: 78 Issue: 14 Article Number: 144101 Published: OCT 2008

5. Title: On the product of two gamma variates with argument 2: Application to the luminosity function for galaxies  
 Author(s): Zaninetti L  
 Source: ACTA PHYSICA POLONICA B Volume: 39 Issue: 6 Pages: 1467-1488 Published: JUN 2008
6. Title: Design, fabrication, characterisation and application of nanoelectrode arrays  
 Author(s): Compton RG, Wildgoose GG, Rees NV, et al.  
 Conference Information: 1st International (SA-UK Research Network) Workshop on Electrochemistry for Nanotechnology, APR 09-10, 2008 Pretoria, SOUTH AFRICA  
 Source: CHEMICAL PHYSICS LETTERS Volume: 459 Issue: 1-6 Pages: 1-17 Published: JUN 27 2008
7. Title: Structural characterization and statistical properties of two-dimensional granular systems  
 Author(s): Frenkel G, Blumenfeld R, Grof Z, et al.  
 Source: PHYSICAL REVIEW E Volume: 77 Issue: 4 Article Number: 041304 Part: Part 1 Published: APR 2008
8. Title: A new luminosity function for galaxies as given by the mass-luminosity relationship  
 Author(s): Zaninetti L  
 Source: ASTRONOMICAL JOURNAL Volume: 135 Issue: 4 Pages: 1264-1275 Published: APR 2008  
 Times Cited: 0
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**Title: Wealth distribution in modern and medieval societies**

**Author(s): Santos MA, Coelho R, Hegyi G, Neda Z, Ramasco J**

**Conference Information: Workshop on Complex Systems - New Trends and Expectations, JUN 05-09, 2006 Santander, SPAIN**

**Source: EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS Volume: 143 Pages: 81-85 Published: APR 2007**

IF:

Citari: 1

Punctaj: 10

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1. Title: Consequences of increased longevity for wealth, fertility, and population growth  
 Author(s): Bogojevic A, Balaz A, Karapandza R  
 Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 387 Issue: 2-3 Pages: 543-550 Published: JAN 15 2008
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**Title: Wealth distribution and Pareto's law in the Hungarian medieval society**

**Author(s): Hegyi G, Neda Z, Santos MA**

**Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 380 Pages: 271-277 Published: JUL 1 2007**

IF:

Citari: 8

Punctaj: 80

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1. Title: Colloquium: Statistical mechanics of money, wealth, and income  
 Author(s): Yakovenko VM, Rosser JB  
 Source: REVIEWS OF MODERN PHYSICS Volume: 81 Issue: 4 Pages: 1703-1725 Published: OCT-DEC 2009
2. Title: From Gaussian to Paretian Thinking: Causes and Implications of Power Laws in Organizations  
 Author(s): Andriani P, McKelvey B  
 Source: ORGANIZATION SCIENCE Volume: 20 Issue: 6 Pages: 1053-1071 Published: NOV-DEC 2009
3. Title: The 80/20 Rule AND Long-Tail in the Online Auction Market-A Case Study on YAHOO Auction, Taiwan  
 Author(s): Lin SC, Hsu SM, Liu KS, et al.  
 Conference Information: 12th World Multi-Conference on Systemics, Cybernetics and Informatics/14th International Conference on Information Systems Analysis and Synthesis, JUN 29-JUL 02, 2008 Orlando, FL  
 Source: WMSCI 2008: 12TH WORLD MULTI-CONFERENCE ON SYSTEMICS, CYBERNETICS AND INFORMATICS, VOL VIII, PROCEEDINGS Pages: 146-151 Published: 2008
4. Title: The 80/20 Rule AND Long-Tail in the Online Auction Market-A Case Study on YAHOO Auction, Taiwan



Author(s): Lin SC, Chou A, Hsu SM, et al.

Conference Information: 12th World Multi-Conference on Systemics, Cybernetics and Informatics/14th International Conference on Information Systems Analysis and Synthesis, JUN 29-JUL 02, 2008 Orlando, FL

Source: WMSCI 2008: 12TH WORLD MULTI-CONFERENCE ON SYSTEMICS, CYBERNETICS AND INFORMATICS, VOL VI, PROCEEDINGS Pages: 97-102 Published: 2008

5. Title: Effects of introduction of new resources and fragmentation of existing resources on limiting wealth distribution in asset exchange models

Author(s): Saif MA, Gade PM

Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 388 Issue: 5 Pages: 697-704 Published: MAR 1 2009

6. Title: On the estimation of the power-law exponent in the mean-field Bouchaud-Mezard model

Author(s): Hu FR

Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 387 Issue: 18 Pages: 4605-4614 Published: JUL 15 2008

7. Title: Kinetic exchange models for income and wealth distributions

Author(s): Chatterjee A, Chakrabarti BK

Source: EUROPEAN PHYSICAL JOURNAL B Volume: 60 Issue: 2 Pages: 135-149 Published: NOV 2007

8. Title: Power-law tail in the Chinese wealth distribution

Author(s): Ning D, Wang YG

Source: CHINESE PHYSICS LETTERS Volume: 24 Issue: 8 Pages: 2434-2436 Published: AUG 2007

Times Cited: 0

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**Title: Critical behavior of a spring-block model for magnetization**

**Author(s): Kovacs K, Neda Z**

**Conference Information: Colloquium on Fungi as Model Organisms in Research and Biotechnology III, SEP 02, 2005 Olomouc, CZECH REPUBLIC**

**Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 3**

**Pages: 1093-1097 Published: JUN 2006**

Citari: 1

Punctaj: 10

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1. Title: Nano-grain and shape induced anisotropy dependence of magnetic properties in Ni electrodeposited films

Author(s): Karagianni CS

Conference Information: 5th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials, SEP 16-19, 2007 Larnaca, CYPRUS

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 5 Pages: 1038-1042 Published: MAY 2008

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**Title: Stochastic simulations on the cellular wave computers**

**Author(s): Ercsey-Ravasz M, Roska T, Neda Z**

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Author(s): Rak A, Soos BG, Cserey G

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**Author(s): Neda Z, Florian R, Ravasz M, Libal A, Gyorgyi G**

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**Author(s): Coelho R, Neda Z, Ramasco JJ, Santos MA**

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Author(s): Tseng JJ, Li SP, Wang SC

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Author(s): Yakovenko VM, Rosser JB

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Author(s): Kim S, Kim GI, Lee G

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Author(s): Bogojevic A, Balaz A, Karapandza R

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Author(s): Chatterjee A, Chakrabarti BK

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Author(s): Jayadev A

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Author(s): Gong T, Minett JW, Wang WSY

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Author(s): Lee G, Il Kim G

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13. Title: Economic inequality: Is it natural?

Author(s): Chatterjee A, Sinha S, Chakrabarti BK

Source: CURRENT SCIENCE Volume: 92 Issue: 10 Pages: 1383-1389 Published: MAY 25 2007

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Author(s): Jeger MJ, Pautasso M, Holdenrieder O, et al.

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**Author(s): Jarai-Szabo F, Astilean S, Neda Z**

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Author(s): Jung S, Lee J

Conference Information: Nanotechnology Conference and Trade Show (Nanotech 2008), JUN 01-05, 2008 Boston, MA

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Author(s): Ke MY, Wang CY, Chen LY, et al.

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Author(s): Lallet F, Olivi-Tran N  
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Author(s): Krouskop PE, Garrison J, Gedeon PC, et al.  
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Author(s): Zhang XY, Whitney AV, Zhao J, et al.  
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**Subtotal: 450**

**2. Alte cit ri ale lucr rilor listate mai sus**

Formula de calcul:  $\text{num r citari} \times 10$

**- pentru**

**3. Cit ri în perioada 2005-2009 ale articolelor anterioare anului 2005**

Formula de calcul:  $\text{num r citari} \times 10 \times \text{factor impact ISI al revistei in care este publicat articolul citat}$

**Title: The sound of many hands clapping - Tumultuous applause can transform itself into waves of synchronized clapping**

**Author(s): Neda, Z**

**Source: NATURE Volume: 403 Issue: 6772 Pages: 849-850 Published: FEB 24 2000**

IF: 25.814

Citari: 76

Punctaj: 760

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Author(s): Miles LK, Griffiths JL, Richardson MJ, et al.  
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Author(s): Wang L, Sun YX  
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Author(s): Marin L, Issartel J, Chaminade T  
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Author(s): Hove MJ, Risen JL  
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Author(s): Sebanz N, Knoblich G

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Author(s): Harrison SJ, Richardson MJ  
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Author(s): Chaminade T, Cheng G  
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Author(s): Weber R, Tamborini R, Westcott-Baker A, et al.  
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Author(s): Zhang HT, Chen MZ, Stan GB, et al.  
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Author(s): Ota K, Nomura M, Aoyagi T  
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Author(s): De Bruyn L, Leman M, Moelants D, et al.  
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Author(s): Goan M, Fukaya T, Tsujita K

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Author(s): Huang ZL, Yan Z, Chen GR

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Author(s): Goan M, Fukaya T, Tsujita K

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Author(s): Sun YZ, Ruan J, Li W

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Author(s): Vicente R, Fischer I, Mirasso CR

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Author(s): Elliott MT, Welchman AE, Wing AM

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 Author(s): Semin GR, Cacioppo JT  
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 Author(s): Fortunato S, Castellano C  
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 Author(s): Kaltenbrunner A, Gomez V, Lopez V  
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Author(s): Szilagyí MN, Jallo MD

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Author(s): Sadhukhan S, Majumder SR, Mal D, et al.

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Author(s): Toga KB, Alaca BE

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 Author(s): Malarz K  
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 Author(s): Lee REC, Megeney LA  
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 Author(s): Zhao FC, Yang HJ, Wang BH  
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16. Title: Interactions matter - complexity in landscapes and ecosystems  
Author(s): Green DG, Sadedin S  
Conference Information: 6th World Congress of the International-Association-for-Landscape-Ecology (IALE), JUL 13-17, 2003 Darwin, AUSTRALIA  
Source: ECOLOGICAL COMPLEXITY Volume: 2 Issue: 2 Pages: 117-130 Published: JUN 2005  
Times Cited: 18

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**Title: Stochastic resonance in 3D Ising ferromagnets**

**Author(s): Neda Z**

**Source: PHYSICS LETTERS A Volume: 210 Issue: 1-2 Pages: 125-128 Published: JAN 1 1996**

Citari: 2

Punctaj: 20

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1 Title: Effect of antiferromagnetic exchange interactions on the Glauber dynamics of one-dimensional Ising models  
Author(s): Pini MG, Rettori A  
Source: PHYSICAL REVIEW B Volume: 76 Issue: 6 Article Number: 064407 Published: AUG 2007  
Times Cited: 4

2. Title: Entropic sampling dynamics of the globally coupled kinetic Ising model  
Author(s): Kim BJ, Choi MY  
Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL Volume: 38 Issue: 10 Pages: 2115-2122 Published: MAR 11 2005  
Times Cited: 0

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**Title: Computer simulation of the microstructure and rheology of semi-solid alloys under shear**

**Author(s): Perez M, Barbe JC, Neda Z, et al.**

**Source: ACTA MATERIALIA Volume: 48 Issue: 14 Pages: 3773-3782 Published: SEP 4 2000**

Citari: 7

Punctaj: 70

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1. Title: Transient and non-isothermal semi-solid behaviour: 3D micromechanical modelling  
Author(s): Favier V, Cezard P, Bigot R  
Source: MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING Volume: 517 Issue: 1-2 Pages: 8-16 Published: AUG 20 2009  
Times Cited: 0

2. Title: Quick Semi-Solid Slurry Making Method Using Metallic Cup  
Author(s): Pahlevani F, Anzai K, Niyama E

Conference Information: 10th International Conference on Semi-Solid Processing of Alloys and Composites, SEP 16-18, 2008 Aachen, GERMANY

Source: SEMI-SOLID PROCESSING OF ALLOYS AND COMPOSITES X Book Series: SOLID STATE PHENOMENA Volume: 141-143 Pages: 463-468 Published: 2008

Times Cited: 0

3. Title: Study on the ability of mechanical vibration for the production of thixotropic microstructure in A356 aluminum alloy

Author(s): Taghavi F, Saghafian H, Kharrazi YHK

Source: MATERIALS & DESIGN Volume: 30 Issue: 1 Pages: 115-121 Published: JAN 2009

Times Cited: 4

4. Title: Slurry reactors for gas-to-liquid processes: A review

Author(s): Wang TF, Wang JF, Jin Y

Source: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 46 Issue: 18 Pages: 5824-5847 Published: AUG 29 2007

Times Cited: 7

5. Title: Dynamic mechanical properties of continuously cast Al alloy in electromagnetic stirrer

Author(s): Lee DY, Kang SW, Kim KB

Conference Information: 9th International Conference on Semi-Solid Processing of Alloys and Composites, SEP 11-13, 2006 Busan, SOUTH KOREA

Source: SEMI-SOLID PROCESSING OF ALLOYS AND COMPOSITES Book Series: SOLID STATE PHENOMENA Volume: 116-117 Pages: 340-343 Published: 2006

Times Cited: 0

6. Title: Semi-solid slurry preparation without additional stirring, cup-cast method

Author(s): Pahlevani F, Yaokawa J, Anzai K

Conference Information: 10th International Conference on Aluminium Alloys (ICAA-10), JUL 09-13, 2006 Vancouver, CANADA

Source: ALUMINIUM ALLOYS 2006, PTS 1 AND 2 - RESEARCH THROUGH INNOVATION AND TECHNOLOGY Book Series: MATERIALS SCIENCE FORUM Volume: 519-521 Pages: 1835-1840 Part: Part 1-2 Published: 2006

Times Cited: 2

7. Title: Phase-field simulation of microstructural evolution during preparation of semi-solid metal by electromagnetic stirring method

Author(s): Yu XL, Li FG, Ren YC, et al.

Source: JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY Volume: 22 Issue: 4 Pages: 441-446 Published: JUL 2006

Times Cited: 0

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**Title: Response in kinetic Ising model to oscillating magnetic fields**

**Author(s): Leung KT, Neda Z**

**Source: PHYSICS LETTERS A Volume: 246 Issue: 6 Pages: 505-510 Published: SEP 28 1998**

Citari: 5

Punctaj: 50

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1 Title: Structural stochastic multiresonance in the Ising model on scale-free networks

Author(s): Krawiecki A

Source: EUROPEAN PHYSICAL JOURNAL B Volume: 69 Issue: 1 Pages: 81-86 Published: MAY 2009

Times Cited: 1

2. Title: Stochastic multiresonance in the Ising model on scale-free networks

Author(s): Krawiecki A

Conference Information: 20th Marian Smoluchowski Symposium on Statistical Physics, SEP 22-27, 2007 Zakopane, POLAND

Source: ACTA PHYSICA POLONICA B Volume: 39 Issue: 5 Pages: 1103-1114 Published: MAY 2008

Times Cited: 1

3. Title: Dynamic phase transition of the globally-coupled kinetic Ising model in the low-frequency region

Author(s): Kim BJ, Hong H



Source: JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 52 Issue: 2 Pages: 203-208 Published: FEB 2008

Times Cited: 4

4. Title: Effect of antiferromagnetic exchange interactions on the Glauber dynamics of one-dimensional Ising models

Author(s): Pini MG, Rettori A

Source: PHYSICAL REVIEW B Volume: 76 Issue: 6 Article Number: 064407 Published: AUG 2007

Times Cited: 4

5. Title: Entropic sampling dynamics of the globally coupled kinetic Ising model

Author(s): Kim BJ, Choi MY

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL Volume: 38 Issue: 10 Pages: 2115-2122 Published: MAR 11 2005

Times Cited: 0

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**Title: Collective dynamics of two-mode stochastic oscillators**

**Author(s): Nikitin A, Neda Z, Vicsek T**

**Source: PHYSICAL REVIEW LETTERS Volume: 87 Issue: 2 Article Number: 024101**

**Published: JUL 9 2001**

Citari: 4

Punctaj: 40

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1. Title: Stochastic Hierarchical Systems: Excitable Dynamics

Author(s): Leonhardt H, Zaks MA, Falcke M, et al.

Source: JOURNAL OF BIOLOGICAL PHYSICS Volume: 34 Issue: 5 Pages: 521-538 Published: 2008

Times Cited: 0

2. Title: Non-Markovian approach to globally coupled excitable systems

Author(s): Prager T, Falcke M, Schimansky-Geier L, et al.

Source: PHYSICAL REVIEW E Volume: 76 Issue: 1 Article Number: 011118 Part: Part 1 Published: JUL 2007

Times Cited: 4

3. Title: Delay induced excitability in VCSELS

Author(s): Piwonski T, Houlihan J, Busch T, et al.

Conference Information: Opto-Ireland 2005 Conference, APR 05-06, 2005 Dublin, IRELAND

Source: Opto-Ireland 2005: Optoelectronics, Photonic Devices, and Optical Networks Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)

Volume: 5825 Pages: 152-159 Published: 2005

Times Cited: 0

4. Title: Delay-induced excitability

Author(s): Piwonski T, Houlihan J, Busch T, et al.

Source: PHYSICAL REVIEW LETTERS Volume: 95 Issue: 4 Article Number: 040601 Published: JUL 22 2005

Times Cited: 18

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**Title: Pattern formation - Spiral cracks without twisting**

**Author(s): Leung KT, Jozsa L, Ravasz M, et al.**

**Source: NATURE Volume: 410 Issue: 6825 Pages: 166-166 Published: MAR 8 2001**

Citari: 5

Punctaj: 50

---

1. Title: Structural Evolution of Drying Drops of Biological Fluids

Author(s): Yakhno TA, Yakhno VG

Source: TECHNICAL PHYSICS Volume: 54 Issue: 8 Pages: 1219-1227 Published: AUG 2009

Times Cited: 0

2. Title: Interaction between cracking, delamination and buckling in brittle elastic thin films

Author(s): Vellinga WP, Van den Bosch M, Geers MGD

Conference Information: Conference on Physical Aspects of Fracture Scaling and Size Effect, MAR 09-13, 2008  
Ascona, SWITZERLAND

Source: INTERNATIONAL JOURNAL OF FRACTURE Volume: 154 Issue: 1-2 Pages: 195-209 Published:  
NOV 2008

Times Cited: 0

3. Title: Do Directional Primary and Secondary Crack Patterns in Thin Films of Maghemite Nanocrystals Follow a Universal Scaling Law?

Author(s): Ngo AT, Richardi J, Pileni MP

Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 112 Issue: 46 Pages: 14409-14414 Published:  
NOV 20 2008

Times Cited: 1

4. Title: Cracks in magnetic nanocrystal films: Do directional and isotropic crack patterns follow the same scaling law?

Author(s): Ngo AT, Richardi J, Pileni MP

Source: NANO LETTERS Volume: 8 Issue: 8 Pages: 2485-2489 Published: AUG 2008

Times Cited: 2

5 Title: Self-assembled patterns of nanospheres with symmetries from submicrons to centimeters

Author(s): Chen K, Taflove A, Kim YL, et al.

Source: APPLIED PHYSICS LETTERS Volume: 86 Issue: 3 Article Number: 033101 Published: JAN 17 2005

Times Cited: 6

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**Title: Spatial stochastic resonance in one-dimensional Ising systems**

**Author(s): Neda Z, Ruzs A, Ravasz E, et al.**

**Source: PHYSICAL REVIEW E Volume: 60 Issue: 4 Pages: R3463-R3466 Part: Part A**

**Published: OCT 1999**

Citari: 4

Punctaj: 40

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1. Title: ENHANCEMENT OF STOCHASTIC RESONANCE IN SPATIALLY EXTENDED SYSTEMS BY MEANS OF DELAYED COUPLING

Author(s): Jezo M, Krawiecki A

Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 23 Issue: 2 Pages: 189-198

Published: JAN 20 2009

Times Cited: 0

2. Title: Spatiotemporal order out of noise

Author(s): Sagues F, Sancho JM, Garcia-Ojalvo J

Source: REVIEWS OF MODERN PHYSICS Volume: 79 Issue: 3 Pages: 829-882 Published: JUL-SEP 2007

Times Cited: 59

3. Title: Stochastic resonance phenomena in quantum many-body systems

Author(s): Huelga SF, Plenio MB

Source: PHYSICAL REVIEW LETTERS Volume: 98 Issue: 17 Article Number: 170601 Published: APR 27  
2007

Times Cited: 12

4. Title: Aspects of stochastic resonance in Josephson junction, bimodal maps and coupled map lattice

Author(s): Ambika G, Menon K, Harikrishnan KP

Conference Information: Conference on Perspectives in Nonlinear Dynamics (PNLD 2004), JUL 12-15, 2004  
Chennai, INDIA

Source: PRAMANA-JOURNAL OF PHYSICS Volume: 64 Issue: 4 Pages: 535-542 Published: APR 2005

Times Cited: 4

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**Title: CURIE TEMPERATURES FOR SITE-DILUTED ISING-FERROMAGNETS**

**Author(s): NEDA Z**

**Source: JOURNAL DE PHYSIQUE I Volume: 4 Issue: 2 Pages: 175-179 Published: FEB 1994**

Citari: 3

Punctaj: 30

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1. Title: The two-dimensional site-diluted Ising model: a short-time-dynamics approach  
Author(s): da Silva LF, Fulco UL, Nobre FD  
Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 21 Issue: 34 Article Number: 346005  
Published: AUG 26 2009  
Times Cited: 0

2. Title: Diffusion accelerates and enhances chirality selection  
Author(s): Shibata R, Saito Y, Hyuga H  
Source: PHYSICAL REVIEW E Volume: 74 Issue: 2 Article Number: 026117 Part: Part 2 Published: AUG 2006  
Times Cited: 5

3. Title: Damage spreading on the 3-12 lattice with competing Glauber and Kawasaki dynamics  
Author(s): Guo ZZ, Wu XW, Wang CA  
Source: PRAMANA-JOURNAL OF PHYSICS Volume: 66 Issue: 6 Pages: 1067-1075 Published: JUN 2006  
Times Cited: 2

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**Title: On the circular hydraulic jump**

**Author(s): Brechet Y, Neda Z**

**Source: AMERICAN JOURNAL OF PHYSICS Volume: 67 Issue: 8 Pages: 723-731 Published: AUG 1999**

Citari: 5

Punctaj: 50

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1. Title: Effects of Jet Obliquity on Hydraulic Jumps Formed by Impinging Circular Liquid Jets on a Moving Horizontal Plate  
Author(s): Kate RP, Das PK, Chakraborty S  
Source: JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME Volume: 131 Issue: 3 Article Number: 034502 Published: MAR 2009  
Times Cited: 0

2. Title: An investigation on non-circular hydraulic jumps formed due to obliquely impinging circular liquid jets  
Author(s): Kate RP, Das PK, Chakraborty S  
Source: EXPERIMENTAL THERMAL AND FLUID SCIENCE Volume: 32 Issue: 8 Pages: 1429-1439  
Published: SEP 2008  
Times Cited: 0

3. Title: An experimental investigation on the interaction of hydraulic jumps formed by two normal impinging circular liquid jets  
Author(s): Kate RP, Das PK, Chakraborty S  
Source: JOURNAL OF FLUID MECHANICS Volume: 590 Pages: 355-380 Published: NOV 10 2007  
Times Cited: 1

4. Title: Hydraulic jumps with corners due to obliquely inclined circular liquid jets  
Author(s): Kate RP, Das PK, Chakraborty S  
Source: PHYSICAL REVIEW E Volume: 75 Issue: 5 Article Number: 056310 Part: Part 2 Published: MAY 2007  
Times Cited: 1

5. Title: Hydraulic jumps due to oblique impingement of circular liquid jets on a flat horizontal surface  
Author(s): Kate RP, Das PK, Chakraborty S  
Source: JOURNAL OF FLUID MECHANICS Volume: 573 Pages: 247-263 Published: FEB 25 2007  
Times Cited: 6

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**Title: Synchronization of two-mode stochastic oscillators: a new model for rhythmic applause and much more**

**Author(s): Neda Z, Nikitin A, Vicsek T**

**Conference Information: 2nd APCTP/6th Taiwan International Symposium on Statistical Physics, MAY 30-JUN 01, 2002 NATL CHUNG HSING UNIV, HUI-SUN FOREST AREA, TAICHUNG, TAIWAN**

Citari: 3

Punctaj: 30

- 
1. Title: Statistical physics of social dynamics  
Author(s): Castellano C, Fortunato S, Loreto V  
Source: REVIEWS OF MODERN PHYSICS Volume: 81 Issue: 2 Pages: 591-646 Published: APR-JUN 2009  
Times Cited: 44
  2. Title: Synchronization of the applause with leaders  
Author(s): Sun YZ, Ruan J, Li W  
Source: ACTA PHYSICA SINICA Volume: 57 Issue: 12 Pages: 7547-7554 Published: DEC 2008  
Times Cited: 0
  3. Title: Synthesis of hand clapping sounds  
Author(s): Peltola L, Erkut C, Cook PR, et al.  
Source: IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING Volume: 15 Issue: 3  
Pages: 1021-1029 Published: MAR 2007  
Times Cited: 5

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**Title: Capillarity-driven interface dynamics: Application to grain growth phenomenon**

**Author(s): Weygand D, Brechet Y, Neda Z**

**Source: PHILOSOPHICAL MAGAZINE B-PHYSICS OF CONDENSED MATTER  
STATISTICAL MECHANICS ELECTRONIC OPTICAL AND MAGNETIC PROPERTIES  
Volume: 75 Issue: 6 Pages: 937-949 Published: JUN 1997**

Citari: 1

Punctaj: 10

- 
1. Title: Abnormal grain growth in undoped strontium and barium titanate  
Author(s): Baurer M, Shih SJ, Bishop C, et al.  
Source: ACTA MATERIALIA Volume: 58 Issue: 1 Pages: 290-300 Published: JAN 2010  
Times Cited: 1

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**Title: The dripping faucet revisited**

**Author(s): Neda Z, Bako B, Rees E**

**Source: CHAOS Volume: 6 Issue: 1 Pages: 59-62 Published: MAR 1996**

Citari: 1

Punctaj: 10

- 
- Title: Self Organized Criticality and/or Low Dimensional Chaos in earthquake processes: Theory and practice in Hellenic region  
Author(s): Pavlos GP, Iliopoulos AC, Atbanasiu MA  
Conference Information: Conference on Nonlinear Dynamics in Geosciences, JUN 12-16, 2006 Rhodes, GREECE  
Source: NONLINEAR DYNAMICS IN GEOSCIENCES Pages: 235-259 Published: 2007

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**Subtotal: 5120**

**4. Distinc ii, premii i alte recunoa teri na ionale i interna ionale**

Se acorda 10 puncte pentru fiecare distinctie, premiu

Formula de calcul: 10 puncte x nr. distinctii, premii

**Membru extern al Academiei de Stiinte din Ungaria – ales in 2007**

**Punctaj: 10**

**5. Studen i na ionali atra i (activit i de coordonare tiin ific i didactic )**

- Îndrumare lucrari de licent (num r lucr ri sus inute) **12**

- Îndrumare lucrări de disertație (număr lucrări susținute) **9**

Formula de calcul:

3 puncte x [(număr de proiecte, lucrări de licență) / număr de conducători științifici]

4 puncte x [(număr de lucrări de masterat conduse) / număr de conducători științifici]

**Punctaj : 36+36=72**

**4. Distincții, premii și alte recunoașteri naționale și internaționale** (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)

Formula de calcul:

6 puncte x nr. doctoranzi înmatriculați

Derzsi Aranka  
Derzsi Noemi  
Deak Robert  
Sumi Robert  
Kaptalan Erna  
Cseh Gyoparka

**Punctaj : 6x6=36**

10 puncte x nr. teze susținute

Kovacs Katalin: Spring-block models for magnetization phenomena

Sumi Robert: Theoretical and numerical studies of phase-transitions in complex systems

**Punctaj=2x10=20**

15 puncte x nr. teze co-tutela susținute

Ercsey-Ravasz Maria: Application of Cellular Neural/Nonlinear Networks in Physics

**Punctaj=15**

- Post-doctoranzi (lista nominală )

Formula de calcul:

8 puncte x nr. post-doctoranzi

**6. Studenți internaționali atrași (activități de coordonare științific și didactic )**

- Îndrumare lucrări de licență (număr lucrări susținute)

- Îndrumare lucrări de disertație (număr lucrări susținute)

Formula de calcul:

6 puncte x [(număr de proiecte, lucrări de licență) / număr de conducători științifici]

8 puncte x [(număr de lucrări de masterat conduse) / număr de conducători științifici]

- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)

Formula de calcul:

12 puncte x nr. doctoranzi înmatriculați

20 puncte x nr. teze susținute

- Post-doctoranzi (lista nominală )

Formula de calcul:

16 puncte x nr. post-doctoranzi

**7. Membru în comitetul de redacție la reviste ISI**

Formula de calcul:

10 puncte x nr. comitete

**8. Membru în comitetul de redacție la reviste BDI**

Formula de calcul:

5 puncte x nr. comitete

**9. Participați la programe/granturi de cercetare finanțate din surse internaționale (se menționează și valoarea)**

Formula de calcul: valoarea în RON / 8.000

**10. Participați la programe/granturi finanțate din surse naționale (se menționează și valoarea)**

Formula de calcul: valoarea în RON / 10.000

**IDEI 2369/2008 (Modele de tip Bloc-resort pentru fenomene complexe) 949440 RON  
Punctaj: 94**

Parteneriat 12121/ ElBioArch 400 000

**Punctaj: 40**

**11. Coordonați de programe/granturi finanțate din surse internaționale (se menționează și valoarea)**

Formula de calcul: valoarea intrată în UBB în RON / 8.000

**12. Coordonați de programe/granturi finanțate din surse naționale (se menționează și valoarea)**

Formula de calcul: valoarea intrată în UBB în RON x 2 / 10.000

**IDEI 2369/2008 (Modele de tip Bloc-resort pentru fenomene complexe)**

**intrat: 91212 RON**

**Punctaj: 18.2.**

**Parteneriat 12121/ ElBioArch**

**intrat 31228**

**Punctaj: 6.2**

**13. Profesor invitat la universități de prestigiu, cu titlu oficial**

Formula de calcul: 20 puncte x invitații

**Universitatea Eotvos-Lorand/ |Budapesta**

**20 puncte**

**14. Membru în comisii profesionale relevante, cu titlu oficial**

Formula de calcul: 5 puncte x nr. invitații

**15. Conferințe invitate internaționale**

Se acordă 20 puncte pentru fiecare Conferință și se ține cont de numărul de autori.

Formula de calcul: 20 / număr de autori

1. Z. Néda, Nontrivial synchronization of multimode stochastic oscillators, "La Taifas cu Diaspora Stiintifica Romaneasca" 17-18 sep 2008, The International Center of Biodynamics UNESCO aegis

2. Z. Néda, Complex behavior resulting from simple optimization rules, A Complexity Application: Reconnecting the Science of the New EU Members, September 18-19, Ierusalem, Israel.

3. Z. Néda, Correlation clustering on scalefree networks, European Conference on Complex Systems, Dynamics On and Of Complex Networks, September 14-19 Ierusalem, Israel

4. Z. Néda, Nontrivial Synchronization, Physics Conference TIM-08, Timisoara, Nov. 27-28, 2008

**Punctaj : 80**

**16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale**

Se acordă 20 puncte pentru fiecare comitet.

Formula de calcul: 20 x nr. Comitete

**TOTAL CRITERIU II : 6011.4**

**III. Realizare remarcabil 10% (aplicat la total punctaj Criteriul III)**

(Describe i într-o manier cât mai accesibil (în maximum 1 pagin ) cea mai important realizare tiin ific /tehnic /artistic din ultimii 5 ani i impactul acesteia.)

Descoperirea unei sincronizari netriviiale in sisteme complexe cu optimizari. Noul model de sincronizare ofera o descriere total noua a fenomenelor de sincronizare in natura. Acceptarea acestui model de comunitatea stiintifica internationala, ca fiind un model de baza in sincronizari.

**Total Punctaj Criteriu III:**

**Total punctaj = 0,6 x (total punctaj Criteriul I) + 0,3 x (total punctaj Criteriul II) + 0,1 x (total punctaj Criteriul III)**

**TOTAL PUNCTAJ (fara criteriul 3) 3674.79 pct**

Data:

Semn tura:

**Certific validitatea datelor prezentate**

Sef de catedr ,