



Curriculum vitae Europass

Informații personale

Nume / Prenume
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Naționalitate(-ități)
Data nașterii

Enăchescu Cristian

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Experiența profesională

Perioada	2018-
Funcția sau postul ocupat	Profesor universitar, Facultatea de Fizică, Universitatea Alexandru Ioan Cuza din Iași
Perioada	2005-2018
Funcția sau postul ocupat	Asistent universitar, Lector universitar, Conferențiar universitar, Facultatea de Fizică, Universitatea Alexandru Ioan Cuza din Iași
Perioada	2003-2004
Funcția sau postul ocupat	Profesor asistent, Departamentul de Chimie Fizică, Universitatea din Geneva, Elveția

Educație și formare

Perioada	2013
Calificarea / diploma obținută	Atestat de abilitare
Perioada	2000-2003
Calificarea / diploma obținută	Doctor în Fizică
Numele și tipul instituției de învățământ / furnizorului de formare	Université de Paris-Versailles Saint Quentin en Yvelines, Franța
Perioada	1998-2000
Calificarea / diploma obținută	Master în Fizică
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Fizică. Universitatea Alexandru Ioan Cuza din Iași
Perioada	1996-2000
Calificarea / diploma obținută	Licență în Sociologie
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Filozofie. Universitatea Alexandru Ioan Cuza din Iași
Perioada	1994-1998
Calificarea / diploma obținută	Licență în Fizică
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Fizică. Universitatea Alexandru Ioan Cuza din Iași

Aptitudini și competențe personale

Domeniul de cercetare

Pagina de prezentare a rezultatelor cercetării

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (*)

Limba engleză

Limba franceză

Limba spaniolă

Modelare și simulare. Fizica compușilor cu tranziție de spin – magnetism molecular

<https://www.webofscience.com/wos/author/record/372035>

Engleza, Franceza, Spaniola

Înțelegere				Vorbire			Scriere		
Ascultare		Citire		Participare la conversație	Discurs oral		Exprimare scrisă		
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent

Competențe și aptitudini organizatorice

Decan, , Facultatea de Fizică, Universitatea Alexandru Ioan Cuza (2020 –prezent)

Prodecan, Facultatea de Fizică, Universitatea Alexandru Ioan Cuza (2010 –2020)

Membru al Consiliului General al Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (2016-2018)

Președinte (2016-2018 și 2020-prezent) și **vicepreședinte** (2018-2020) al **Comisiei de Fizică din CNATDCU**

Membru al Consiliului Național al Cercetării Științifice (CNCS)– Comisia de Fizică (2011-2013)

Activități didactice

Introducere în simularea evenimentelor discrete. Metoda Monte Carlo și Modelul Ising (master) Electricitate și magnetism (licență), Tehnologii informaționale (licență)

Proiecte de cercetare

Director sau Responsabil pentru **10 granturi de cercetare** obținute prin competiție totalizând peste 1.200.000 Euro.

Premii obținute

Premiul Ștefan Procopiu al Academiei Române (2015)

Premiul de Excelență al Fundației Naționale pentru Știință și Artă (sub egida Academiei Române) (2010)

Rezultatele activității științifice

- **100 de lucrări în reviste cotate ISI** (1 Nature Mater., 1 Phys. Rev. Lett., 13 Phys. Rev. B, 1. Angew. Chem, 2 Appl. Phys Lett., 5 J. Appl. Phys., 4 Inorg. Chem. etc.) și 4 capitole în cărți internaționale (Springer, Germania, Wiley Ed. UK) în domeniile fizicii stării solide, chimiei fizice și fizicii informatice

- **peste 2800 de citări** în reviste cotate ISI (medie 27.5 citări/ articol)

- **Indice Hirsch: 30** (30 de lucrări citate de cel puțin 309 de ori)

- peste 250 comunicări prezentate la conferințe internaționale, din care 25 invitate și 40 orale.

- punctaj total CNATDCU: peste 500 % din punctajul minim necesar pentru poziția de profesor universitar.

Recunoaștere internațională

Membru în Comitetul de Management al Rețelei Europene COST: Explicit Control Over Spin-states in Technology and Biochemistry - ECOSTBio (2014-2018)

Membru supleant în Comitetul de Management al Rețelei Europene COST: Magnetofon (2019-2022) și al Rețelei europene FP7 MAGMAnet (2006-2010)

Profesor și cercetător invitat la Universitatea din Tokyo (2009-2019, două săptămâni anual), Universitatea din Leeds (2013), Universitatea din Geneva (2015), Universitatea din Cernăuți (2015, 2016), Universitatea din Rennes (2016), Universitatea din Toulouse (2017), Universitatea Paris Orsay (2018), Universitatea Paris Denis Diderot (2019) Promotor al acordurilor de cooperare între Universitatea Alexandru Ioan Cuza și Universitatea din Tokyo, Universitatea din Versailles și Universitatea din Rennes.

Referent pentru AUF (Agence Universitaire de la Francophonie), COST, NSF Bulgaria, Fondecyt Chile.

Referent pentru Physical Review Letters, Physical Review B, Physical Review E, Inorganic Chemistry, Applied Mathematical Modelling, PhysChemChemPhys, Physica B, etc

02.01.2024

Cristian Enăchescu – Lista lucrărilor

A Articole publicate în reviste ISI

- [1] **Author(s)** Andriesei, A; Plesca, D; Capu, R; Stan, RM; Tanasa, R; Enachescu, C
Title: Disentangling between static and kinetic effects in the hysteresis of spin crossover molecular magnets
Source: ROMANIAN REPORTS IN PHYSICS, Volume75, Issue3, Article Number 502, Published 2023
-
- [2] **Author(s)** Dutta, M ; Bisht, S; Ghosh, P; Chilug, AI; Mann, D; Enachescu, C; Shatrak, M; Chakraborty, P
Title: Multiscale out-of-equilibrium dynamics driven by pulsed laser excitation in spin-crossover materials: A combined thermoelastic and mechanoelastic study
Source: INORGANIC CHEMISTRY, Volume 62, Issue37, Page15050-15062, Published SEP 7 2023
-
- [3] **Author(s)** Stoleriu, L; Nishino, M; Miyashita, S; Stancu, A; Bertoni, R; Collet, E; Lorenc, M; Enachescu, C
Title: Multiscale out-of-equilibrium dynamics driven by pulsed laser excitation in spin-crossover materials: A combined thermoelastic and mechanoelastic study
Source: PHYSICAL REVIEW B, Volume: 108, Issue: 1 Article Number: 014306 Published: JUL 21 2023
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- [4] **Author(s)** Ghosh, P; Pask, CM; Vasili, HB; Yoshinari, N; Konno, T; Cespedes, O; Enachescu, C; Chakraborty, P; Halcrow, MA
Title: The effect of inert dopant ions on spin-crossover materials is not simply controlled by chemical pressure
Source: JOURNAL OF MATERIAL CHEMISTRY C, Volume11, Issue37, Page12570-12582, Published: SEP 28 2023
-
- [5] **Author(s)** Hu, YW; Picher, M ; Palluel, M; Daro, N; Freysz, E; Stoleriu, L, Enachescu, C; Chastanet, G; Banhart, F
Title: Laser-Driven Transient Phase Oscillations in Individual Spin Crossover Particles
Source: SMALL, Volume 19, 2303701, Published MAY 2023
-
- [6] **Author(s)** Das, C; Dey, S; Adak, A; Enachescu, C; Chakraborty, P
Title: Variation of the Cooperativity in Diluted Hofmann-Based Spin-Crossover Coordination Solids {Fe1-xMx(pz)[Pd(CN)4]}
Source: CRYSTAL GROWTH & DESIGN, Volume: 23, Issue: 5 Pages: 3496-3508 Published APR 12 2023
-
- [7] **Author(s)** Kelai, M; Tauzin, A; Railean, A; Repain, V; Lagoute, J; Girard, Y; Rousset, S; Otero, E; Mallah, T; Boillot, ML; Enachescu, C; Bellec, A
Title: Interface versus Bulk Light-Induced Switching in Spin-Crossover Molecular Ultrathin Films Adsorbed on a Metallic Surface
Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS, Volume: 14, Issue: 7 Pages: 1949-1954 Published FEB 14 2023
-
- [8] **Author(s)** Railean, A; Kelai, M; Bellec, A; Repain, V; Boillot, ML; Mallah, T; Stoleriu, L; Enachescu, C;
Title: Mechanoelastic simulations of monolayer lattices of spin crossover molecules on a substrate
Source: PHYSICAL REVIEW B, Volume: 107, Issue: 1 Article Number: 014304 Published: JAN 11 2023
-
- [9] **Author(s)** Volte, A; Mariette, C; Bertoni, R; Cammarata, M; Dong, X; Trzop, E; Cailleau, H; Collet, E; Levantino, M; Wulff, M; Kubicki, J; Yang, FL; Boillot, ML; Corraze, B; Stoleriu, L; Enachescu, C; Lorenc, M
Title: Dynamical limits for the molecular switching in a photoexcited material revealed by X-ray diffraction
Source: COMMUNICATIONS PHYSICS, Volume: 5, Issue: 1 Article Number: 168 Published JUN 29 2022
-
- [10] **Author(s)** Ati, M ; Enachescu, C ; Bouamrane, R
Title: Molecular Dynamics Study of Oscillators Spin Chain in Framework of Variable Interaction Range Model
Source: ACTA PHYSICA POLONICA A, Volume: 141, Issue: 3 Pages: 191-197 Published MAR 2022
-
- [11] **Author(s)** Chakraborty, P; Sy, M; Fourati, H; Delgado, T; Dutta, M; Das, C; Besnard, C; Hauser, A; Enachescu, C; Boukheddaden, K
Title: Optical microscopy imaging of the thermally-induced spin transition and isothermal multi-stepped relaxation in a low-spin stabilized spin-crossover material
Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Volume: 24, Issue: 2 Pages: 982-994 Published JAN 4 2022
-
- [12] **Author(s)** Tong, Y; Kelai, M; Bairagi, K.; Repain, V; Lagoute J; Girard, Y; Rousset, S; Boillot, ML; Mallah, T; Enachescu, C; Bellec, A
Title: Voltage-Induced Bistability of Single Spin-Crossover Molecules in a Two-Dimensional Monolayer
Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS, Volume: 12, Issue: 45 Pages: 11029-11034 Published NOV 7 2021
-
- [13] **Author(s)** Hu, YW; Picher, M; Tran, NM; Palluel, M; Stoleriu, L; Daro, N; Mornet, S; Enachescu, C; Freysz, E; Banhart, F; Chastanet, G
Title: Photo-Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy
Source: ADVANCED MATERIALS, Article number 2105586 Published OCT2021
-
- [14] **Author(s)** Kelai, M; Repain, V; Tauzin, A; Li, WB; Girard, Y; Lagoute, J; Rousset, S; Otero, E; Sainctavit, P; Arrio, MA; Boillot, ML; Mallah, T; Enachescu, C; Bellec, A
Title: Thermal Bistability of an Ultrathin Film of Iron(II) Spin-Crossover Molecules Directly Adsorbed on a Metal Surface
Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS, Volume: 12, Issue: 26 Pages: 6152-6158 Published JUL 8 2021
-
- [15] **Author(s)** Plesca, D; Railean, A; Tanasa, R; Stancu, A; Laisney, J; Boillot, ML; Enachescu, C
Title: Unexpected Light-Induced Thermal Hysteresis in Matrix Embedded Low Cooperative Spin Crossover Microparticles
Source: MAGNETOCHEMISTRY, Volume: 7, Issue:5 Article Number: 59 Published MAY 2021
-
- [16] **Author(s)** Popa, AI; Stoleriu, L; Enachescu, C;
Title: Tutorial on the elastic theory of spin crossover materials
Source: JOURNAL OF APPLIED PHYSICS, Volume: 129, Issue: 13 Pages: 131101-1-131101-24, Published APR 7 2021
-
- [17] **Author(s)** Laisney, J; Morineau, D; Enachescu, C; Tanasa, R; Riviere, E; Guillot, R; Boillot, ML
Title: Mechanical-tuning of the cooperativity of SC particles via the matrix crystallization and related size effects
Source: JOURNAL OF MATERIALS CHEMISTRY, Volume: 8, Issue: 21 Pages: 7067-7078 Published JUN 7 2020
-
- [18] **Author(s)** Nishino, M; Enachescu, C; Miyashita, S,
Title: Multistep spin-crossover transitions induced by the interplay between short- and long-range interactions with frustration on a triangular lattice
Source: PHYSICAL REVIEW B, Volume: 100, Issue: 13 Article Number: 134414 Published: OCT 10 2019
-
- [19] **Author(s):** Fourmental, C ; Mondal, S ; Banerjee, R ; Bellec, A ; Garreau, Y ; Coati, A ; Chacon, C ; Girard, Y ; Lagoute, J ; Rousset, S ; Boillot, ML ; Mallah, T ; Enachescu, C ; Barreteau, C ; Dappe, YJ ; Smogunov, A ; Narasimhan, S ; Repain, V
Title: Importance of Epitaxial Strain at a Spin-Crossover Molecule-Metal Interface
Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS, Volume: 10, Issue: 14, Pages: 4103-4109, 10.1021/acs.jpcllett.9b01303. JUL 18 2019
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- [20] **Author(s):** Tanasa, R; Enachescu, C; Laisney, J; Morineau, D; Stancu, A; Boillot, ML

Title: Unraveling the Environment Influence in Bistable Spin-Crossover Particles Using Magnetometric and Calorimetric First-Order Reverse Curves
Source: JOURNAL OF PHYSICAL CHEMISTRY C, Volume: 123, Issue: 15, Pages: 10120-10129, 10.1021/acs.jpcc.9b00768, APR18 2019

[21] **Author(s):** Bertoni, R; Collet, E; Cailleau, H; Boillot, ML; Tissot, A; Laisney, J; Enachescu, C; Lorenc, M
Title: Temperature dependence of the cooperative out-of-equilibrium elastic switching in a spin-crossover material
Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Volume: 21, Issue: 12, Pages: 6606-6612, 10.1039/c8cp07074a, MAR 28, 2019

[22] **Author(s):** Stoleriu, L; Enachescu, C
Title: Elastic model for spin crossover nanoparticles in matrices
Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE
Volume: 20 Issue: 1 Pages: 59-66 Published: JAN-MAR 2019

[23] **Author(s):** Delgado, T; Enachescu, C; Tissot, A; Hauser, A; Guenee, L; Besnard, C
Title: Evidencing size-dependent cooperative effects on spin crossover nanoparticles following their HS-LS relaxation
Source: JOURNAL OF MATERIALS CHEMISTRY C, Volume: 6, Issue: 46, Pages: 12698-12706, 10.1039/c8tc04315a, DEC 14 2018

[24] **Author(s):** Enachescu, C; Nicolazzi, W
Title: Elastic models, lattice dynamics and finite size effects in molecular spin crossover systems
Source: COMPTES RENDUS CHIMIE, Volume: 21, Issue: 12, Pages: 10.1016/j.crci.2018.02.004, DEC 2018

[25] **Author(s):** Delgado, T; Enachescu, C; Tissot, A; Guenee, L; Hauser, A; Besnard, C
Title: The influence of the sample dispersion on a solid surface in the thermal spin transition of [Fe(pz)Pt(CN)(4)] nanoparticles
Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Volume: 20, Issue: 18, Pages: 12493-12502, 10.1039/c8cp00775f, MAY 14, 2018

[26] **Author(s):** Stoleriu, L; Nishino, M; Miyashita, S; Stancu, A; Hauser, A.; Enachescu, C
Title: Cluster evolution in molecular three-dimensional spin-crossover systems
Source: PHYSICAL REVIEW B, Volume: 96, Issue: 6, Article Number: 064105, 10.1103/PhysRevB.96.064115; AUG 24 2017

[27] **Author(s):** Gaina, R.; Enachescu, C;
Title: Nucleation in spin transition molecular magnets: a parallel between Ising-like and mechanoelastic models
Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE
Volume: 18 Issue: 3 Pages: 215-222 Published: JUL-SEP 2017

[28] **Author(s):** Ati, M.; Enachescu, C; Boumarane, R.;
Title: Langevin dynamics simulation of a one-dimensional linear spin chain with long-range interactions
Source: EUROPEAN PHYSICAL JOURNAL B Volume: 90 Issue: 7 Article Number: 133 Published: JUL 12 2017

[29] **Author(s):** Enachescu, C ; Stoleriu, L; Nishino, M; Miyashita, S, Stancu, A; Lorenc, M; Bertoni, R; Cailleau, H, Collet, E
Title: Theoretical approach for elastically driven cooperative switching of spin-crossover compounds impacted by an ultrashort laser pulse
Source: PHYSICAL REVIEW B, Volume: 95, Issue: 22, Article Number: 224107, DOI: 10.1103/PhysRevB.95.224107, JUN 29 2017

[30] **Author(s):** Enachescu, C.; Hauser, A.
Title: Study of switching in spin transition compounds within the mechanoelastic model with realistic parameters
Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Volume: 18, Issue: 30, Pages: 20591-20599, DOI: 10.1039/c6cp02806c, AUG 14 2016

[31] **Author(s):** Enachescu, C; Tanasa, R; Stancu, A; Tissot, A; Laisney, J; Boillot, ML
Title: Matrix-assisted relaxation in Fe(phen)(2)(NCS)(2) spin-crossover microparticles, experimental and theoretical investigations
Source: APPLIED PHYSICS LETTERS, Volume: 109, Issue: 3, Article Number: 031908, DOI: 10.1063/1.4959262, JUL 18 2016

[32] **Author(s):** Bertoni, R; Lorenc, M; Cailleau, H; Tissot, A; Laisney, J; Boillot, ML; Stoleriu, L; Stancu, A; Enachescu, C; Collet, E
Title: Elastically driven cooperative response of a molecular material impacted by a laser pulse
Source: NATURE MATERIALS, Volume: 15, Pages: 606, DOI: 10.1038/NMAT4606, JUN 2016

[33] **Author(s):** Atitoaie, A; Stoleriu, L ; Tanasa, R; Stancu, A; Enachescu, C
Title: Thermal hysteresis kinetic effects of spin crossover nanoparticulated systems studied by FORC diagram method on an Ising-like model
Source: PHYSICA B-CONDENSED MATTER, Volume: 486, Pages: 138-141, DOI: 10.1016/j.physb.2015.08.035, APR 1 2016

[34] **Author(s):** Stan, RM, Gaina, R; Enachescu, C; Tanasa, R; Stancu, A; Bronisz, R
Title: Kinetic effects on double hysteresis in spin crossover molecular magnets analyzed with first order reversal curve diagram technique
Source: JOURNAL OF APPLIED PHYSICS, Volume: 117, Issue: 17, Article Number: 17B323, DOI: 10.1063/1.4918961, Published: MAY 7 2015

[35] **Author(s):** Stoleriu, L; Stancu, A; Chakraborty, P; Hauser, A; Enachescu, C
Title: Analysis of first order reversal curves in the thermal hysteresis of spin-crossover nanoparticles within the mechanoelastic model
Source: JOURNAL OF APPLIED PHYSICS, Volume: 117, Issue: 17, Article Number: 17B307, DOI: 10.1063/1.4914953, Published: MAY 7 2015

[36] **Author(s):** Enachescu, C; Nishino, M; Miyashita, S; Boukheddaden, K; Varret, F; Rikvold, PA
Title: Shape effects on the cluster spreading process of spin-crossover compounds analyzed within an elastic model with Eden and Kawasaki dynamics
Source: PHYSICAL REVIEW B, Volume: 91, Issue: 10, Article Number: 104102, DOI: 10.1103/PhysRevB.91.104102, Published: MAR 3 2015

[37] **Author(s):** Chakraborty, P; Enachescu, C; Humair, A; Egger, L; Delgado, T; Tissot, A; Guenee, L; Besnard, C; Bronisz, R; Hauser, A
Title: Light-induced spin-state switching in the mixed crystal series of the 2D coordination network {[Zn_{1-x}Fe_x(btr)₃](BF₄)₂}(infinity): optical spectroscopy and cooperative effects
Source: DALTON TRANSACTIONS Volume: 43 Issue: 47 Pages: 17786-17796 Published: 2014

[38] **Author(s):** Atitoaie, A; Tanasa, R; Stancu, A; Enachescu, C
Title: Study of spin crossover nanoparticles thermal hysteresis using FORC diagrams on an Ising-like model
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 368, Pages: 12-18 DOI: 10.1016/j.jmmm.2014.04.054 Published: NOV 2014

[39] **Author(s):** Gudyma, Y; Maksimov, A; Enachescu, C
Title: Phase transition in spin-crossover compounds in the breathing crystal field model
Source: PHYSICAL REVIEW B: 89, 224412: 10.1103/PhysRevB.89.224412.; JUN 23 2014

[40] **Author(s):** Tanasa, R, Laisney, J, Stancu, A, Boillot, ML, Enachescu, C
Title: Hysteretic behavior of Fe(phen)(2)(NCS)(2) spin-transition microparticles vs. the environment: A huge reversible component resolved by first order reversal

curves

Source: APPLIED PHYSICS LETTERS: 104, 3, 031909: 10.1063/1.4862748, : JAN 20 2014

[41] **Author(s):** Nishino, M; Nakada, T; Enachescu, C; Boukheddaden, K; Miyashita, S
Title: Crossover of the roughness exponent for interface growth in systems with long-range interactions due to lattice distortion
Source: PHYSICAL REVIEW B: 88, 9, 094303: 10.1103/PhysRevB.88.094303, : SEP 16 2013

[42] **Author(s):** Chakraborty, P; Pillet, S; Bendeif, EE; Enachescu, C; Bronisz, R; Hauser, A
Title: Light-Induced Bistability in the 2D Coordination Network $\{[\text{Fe}(\text{btr})(3)][\text{BF}_4](2)\}_\infty$: Wavelength-Selective Addressing of Molecular Spin States
Source: CHEMISTRY-A EUROPEAN JOURNAL, 19 (34), 11418-11428, 10.1002/chem.201301257, AUG 19 2013

[43] **Author(s):** Chakraborty, P; Enachescu, C; Hauser, A
Title: Analysis of the Experimental Data for Pure and Diluted $[\text{Fe}_x\text{Zn}_{1-x}(\text{btr})(3)](\text{ClO}_4)_2$ Spin-Crossover Solids in the Framework of a Mechanoelastic Model
Source: EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, 5-6, 770-780, FEB 2013

[44] **Author(s):** Chakraborty, P; Enachescu, C; Walder, C; Bronisz, R; Hauser, A
Title: Thermal and Light-Induced Spin Switching Dynamics in the 2D Coordination Network of $\{[\text{Zn}_{1-x}\text{Fe}_x(\text{btr})_3](\text{ClO}_4)_2\}_\infty$: The Role of Cooperative Effects
Source: INORGANIC CHEMISTRY, 51 (18):9714-9722; 10.1021/ic301006c SEP 17 2012

[45] **Author(s):** Tissot, A; Enachescu, C; Boillot, ML
Title: Control of the thermal hysteresis of the prototypal spin-transition $\text{FeII}(\text{phen})_2(\text{NCS})_2$ compound via the microcrystallites environment: experiments and mechanoelastic model
Source: JOURNAL OF MATERIALS CHEMISTRY, 22 (38):20451-20457; 10.1039/c2jm33865c 2012

[46] **Author(s):** Enachescu, C; Nishino, M; Miyashita, S; Stoleriu, L; Stancu, A
Title: Monte Carlo Metropolis study of cluster evolution in spin-crossover solids within the framework of a mechanoelastic model
Source: PHYSICAL REVIEW B, 86 (5):10.1103/PhysRevB.86.054114 AUG 20 2012

[47] **Author(s):** Atitoaie A; Tanasa R; Enachescu C
Title: Size dependent thermal hysteresis in spin crossover nanoparticles reflected within a Monte Carlo based Ising-like model
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 324 Issue: 8 Pages: 1596-1600 DOI: 10.1016/j.jmmm.2011.12.011

[48] **Author(s):** Ferbinteanu M; Cimpoesu F; Girtu M.; Enachescu C; Tanase S
Title: Structure and Magnetism in Fe-Gd Based Dinuclear and Chain Systems. The Interplay of Weak Exchange Coupling and Zero Field Splitting Effects
Source: INORGANIC CHEMISTRY Volume: 51 Issue: 1 Pages: 40-50 DOI: 10.1021/ic1023289 Published: JAN 2 2012

[49] **Author(s):** Nishino, M; Enachescu, C; Miyashita, S, Rikvold, P.A.; Boukheddaden, K., Varret, F
Title: Macroscopic nucleation phenomena in continuum media with long-range interactions
Source: SCIENTIFIC REPORTS 1 : 162 DOI: 10.1038/srep00162, 2011

[50] **Author(s):** Stoleriu, L; Chakraborty, P; Hauser, A; Stancu, A; Enachescu, C
Title: Thermal hysteresis in spin-crossover compounds studied within the mechanoelastic model and its potential application to nanoparticles
Source: PHYSICAL REVIEW B 84 (13): 10.1103/PhysRevB.84.134102 OCT 11 2011

[51] **Author(s):** Padurariu L; Enachescu C; Mitoseriu L
Title: Monte Carlo simulations for describing the ferroelectric-relaxor crossover in BaTiO_3 -based solid solutions
Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 23 Issue: 32 Article Number: 325901, AUG 17 2011

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