

## Afisarea articolelor 1-20(25) pentru cuvântul-cheie "Binary alloys"

### **Large ordered moment with strong easy-plane anisotropy and vortex-domain pattern in the kagome ferromagnet Fe<sub>3</sub>Sn**

*Prodan Lilian<sup>1</sup>, Donald M. Evans<sup>1</sup>, Griffin Sinead M.<sup>2</sup>, Ostlin Andreas<sup>1</sup>, Althaler Markus<sup>1</sup>, Lysne Erik Nikolai<sup>3</sup>, Filippova Irina<sup>4</sup>, Şova Sergiu<sup>5</sup>, Chioncel Liviu<sup>1</sup>, Ţurcan Vladimir<sup>4</sup>, Kezsmarki Istvan<sup>1</sup>*

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#### **Applied Physics Letters**

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### **Aggregation of a Giant Bean-like {Mn<sub>26</sub>Dy<sub>6</sub>} Heterometallic Oxo-Hydroxo-Carboxylate Nanosized Cluster from a Hexanuclear {Mn<sub>6</sub>} Precursor**

*Darii Mariana<sup>1</sup>, Kravţov Victor<sup>1</sup>, Kramer Karl W<sup>2</sup>, Hauser Jurg<sup>2</sup>, Decurtins Silvio<sup>2</sup>, Liu Shi-Xia<sup>2</sup>, Affronte Marco<sup>3</sup>, Baca Svetlana<sup>1</sup>*

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#### **Crystal Growth and Design**

1(20) / 2020 / ISSN 1528-7483

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### **Modeling of electron transfer phenomenon in the dinuclear {Fe( $\mu$ -CN)Co} complexes**

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#### **Journal of Applied Physics**

/ 2021 / ISSN 0021-8979 /ISSNe 1089-7550

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### **Formation of algaas/ingaas buried heterostructure laser diodes with high quality lateral confinement interfaces**

*Chand Naresh<sup>1</sup>, Dutta Nilroy K.<sup>1</sup>, Chu Sung Nee George<sup>1</sup>, Sîrbu Alexei<sup>2</sup>, Mereuţă Alexandru<sup>2</sup>, Iacovlev Vladimir<sup>2</sup>*

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#### **Proceedings of SPIE - The International Society for Optical Engineering**

Ediţia 2, Vol.1985. 1993. Bellingham, Washington. [ISSN 0277-786X](https://doi.org/10.1117/12.10277).

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### **Surface functionalization of ZnO:Ag columnar thin films with AgAu and AgPt bimetallic alloy nanoparticles as an efficient pathway for highly sensitive gas discrimination and early hazard detection in batteries**

*Vahl Alexander<sup>1</sup>, Lupan Oleg<sup>1,2</sup>, Santos-Carballal David<sup>3,4</sup>, Postica Vasile<sup>2</sup>, Hansen Sandra<sup>1</sup>, Covers Heather<sup>1</sup>, Wolff Niklas<sup>5</sup>, Terasa Maik-Ivo<sup>1</sup>, Hoppe Mathias<sup>1</sup>, Cadi-Essadek Abdelaziz<sup>3</sup>, Dankwort Torben<sup>1</sup>, Kienle Lorenz<sup>1</sup>, De Leeuw Nora H<sup>6,4</sup>, Adelung Rainer<sup>1</sup>, Faupel Franz<sup>1</sup>*

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## **Journal of Materials Chemistry A**

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### **Characterization of Cu<sub>2</sub>SnS<sub>3</sub> polymorphism and its impact on optoelectronic properties**

*Oliva Florian<sup>1</sup>, Arques Laia<sup>1</sup>, Acebo Laura<sup>1</sup>, Guc Maxim<sup>2</sup>, Sanchez Yudania<sup>1</sup>, Alcobe Xavier<sup>3</sup>, Perez-Rodriguez Alejandro<sup>13</sup>, Saucedo Edgardo M.<sup>1</sup>, Izquierdo-Roca Victor<sup>1</sup>*

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## **Journal of Materials Chemistry A**

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### **Porous InP as piezoelectric component in magnetoelectric composite sensors**

*Gerngross Mark Daniel<sup>1</sup>, Sprincean Veaceslav<sup>2</sup>, Leisner Malte<sup>1</sup>, Carstensen Juergen<sup>1</sup>, Foil H.<sup>1</sup>, Tighineanu Ion<sup>2</sup>*

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## **ECS Transactions**

Vol. 35, Ediția 8. 2012. Pennington, New Jersey. [ISBN 978-156677869-5, 978-160768219-6](#).

Disponibil online 30 January, 2024. Descarcări-0. Vizualizări-102

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### **Fe (III)-based ammonia-free bath for electrodeposition of Fe-W alloys**

*Nicolenco Aliona<sup>1</sup>, Țîntaru Natalia<sup>12</sup>, Cesiulis Henrikas<sup>1</sup>*

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## **Journal of the Electrochemical Society**

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### **Magnetic state of Nb(1-7nm)/Cu<sub>30</sub>Ni<sub>70</sub> (6nm) superlattices revealed by Polarized Neutron Reflectometry and SQUID magnetometry**

*Khaydukov Yu N.<sup>123</sup>, Morari Roman<sup>45</sup>, Lenk Daniel<sup>5</sup>, Zdravkov Vladimir<sup>54</sup>, Merkel Daniel Geza<sup>6</sup>, Seidlhofer Beatrix Kamelia<sup>7</sup>, Miller Claudia<sup>5</sup>, Krug Von Nidda Hans Albrecht<sup>5</sup>, Keller Thomas<sup>18</sup>, Steitz Roland<sup>7</sup>, Sidorenko Anatolie<sup>4</sup>, Hörn Siegfried<sup>5</sup>, Tidecks Reinhard<sup>5</sup>, Keimer Bernhard<sup>1</sup>*

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## **Journal of Physics: Conference Series**

Ediția 11, Vol.862. 2017. Bristol, UK. [ISSN 17426588](#).

Disponibil online 25 May, 2022. Descarcări-0. Vizualizări-475

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## **Spiral spin-liquid and the emergence of a vortex-like state in MnSc<sub>2</sub>S<sub>4</sub>**

*Gao Shang<sup>12</sup>, Zaharko Oksana<sup>1</sup>, Ţurcan Vladimir<sup>34</sup>, Su Yixi<sup>5</sup>, White Jonathan Stuart<sup>1</sup>, Tucker Gregory S.<sup>1</sup>, Roessli Bertrand<sup>1</sup>, Bourdarot Frederic<sup>6</sup>, Sibille Romain F.<sup>1</sup>, Chernyshov D.<sup>7</sup>, Fennell Tom<sup>1</sup>, Loidl Alois<sup>3</sup>, Ruegg Ch<sup>12</sup>*

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### **Nature Physics**

/ 2017 / ISSN 1745-2473

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## **Dilution of a polar magnet: Structure and magnetism of Zn-substituted Co<sub>2</sub>Mo<sub>3</sub>O<sub>8</sub>**

*Prodan Lilian<sup>12</sup>, Filippova Irina<sup>2</sup>, Zubtsovskii Alexander O.<sup>1</sup>, Şova Sergiu<sup>3</sup>, Widmann Sebastian<sup>1</sup>, Tsirlin Alexander A.<sup>14</sup>, Kezsmarki Istvan<sup>1</sup>, Ţurcan Vladimir<sup>12</sup>*

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### **Physical Review B**

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## **Magneto-optical detection of topological contributions to the anomalous Hall effect in a kagome ferromagnet**

*Schilberth Felix L.<sup>1</sup>, Unglert Nico<sup>1</sup>, Prodan Lilian<sup>2</sup>, Meggle F.<sup>1</sup>, Ebad-Allah Jihaan<sup>1</sup>, Kuntscher Christine A.<sup>1</sup>, Tsirlin Alexander A.<sup>2</sup>, Ţurcan Vladimir<sup>23</sup>, Deisenhofer Joachim<sup>2</sup>, Chioncel Liviu<sup>2</sup>, Kezsmarki Istvan<sup>2</sup>, Bordacs Sandor<sup>2</sup>*

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### **Physical Review B**

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## **Anisotropy-driven response of the fractional antiferromagnetic skyrmion lattice in MnSc<sub>2</sub>S<sub>4</sub> to applied magnetic fields**

*Rosales H. D.<sup>12</sup>, Gomez Albarracin Flavia A.<sup>1</sup>, Guratinder K.<sup>34</sup>, Ţurcan Vladimir<sup>56</sup>, Prodan Lilian<sup>56</sup>, Ressouche Eric<sup>7</sup>, Zaharko Oksana<sup>3</sup>*

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### **Physical Review B**

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## **Resolving structural changes and symmetry lowering in spinel FeCr<sub>2</sub>S<sub>4</sub>**

*Donald M. Evans<sup>1</sup>, Grendal Ola G.<sup>2</sup>, Prodan Lilian<sup>3</sup>, Winkler Maximilian<sup>4</sup>, Winterhalter-Stocker Noah<sup>4</sup>, Gengenwart Philipp<sup>4</sup>, Ghara Somnath<sup>4</sup>, Deisenhofer Joachim<sup>4</sup>, Kezsmarki Istvan<sup>4</sup>, Ţurcan Vladimir<sup>4,3</sup>*

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## **Crossover between short- And long-range proximity effects in superconductor/ferromagnet/superconductor junctions with Ni-based ferromagnets**

*Kapran Olena<sup>1</sup>, Golod Taras<sup>1</sup>, Iovan Adrian<sup>1,2</sup>, Sidorenko Anatolie<sup>3,4</sup>, Golubov Alexander<sup>5,6</sup>, Krasnov Vladimir<sup>1,6</sup>*

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### **Physical Review B**

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## **Element-specific field-induced spin reorientation and tetracritical point in MnCr<sub>2</sub> S<sub>4</sub>**

*Yamamoto Sh<sup>1</sup>, Suwa Hidemaro<sup>2</sup>, Kihara Takumi<sup>3</sup>, Nomura Toshihiro<sup>1,2</sup>, Kotani Yoshinori<sup>4</sup>, Nakamura Tetsuya<sup>3,4</sup>, Skourski Yurii<sup>1</sup>, Zherlitsyn S.<sup>1</sup>, Prodan Lilian<sup>5,6</sup>, Ţurcan Vladimir<sup>5,6</sup>, Nojiri Hiroyuki<sup>3</sup>, Loidl Alois<sup>6</sup>, Wosnitza Joachim<sup>1,7</sup>*

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### **Physical Review B**

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## **Magnetic and vibronic terahertz excitations in Zn-doped Fe<sub>2</sub>Mo<sub>3</sub> O<sub>8</sub>**

*Csizi Benjamin<sup>1</sup>, Reschke Stephan<sup>1</sup>, Strinic A.<sup>1</sup>, Prodan Lilian<sup>1,2</sup>, Ţurcan Vladimir<sup>1,2</sup>, Kezsmarki Istvan<sup>1</sup>, Deisenhofer Joachim<sup>1</sup>*

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## **Magnetoelectric properties and low-energy excitations of multiferroic FeCr<sub>2</sub> S<sub>4</sub>**

*Strinic A.<sup>1</sup>, Reschke Stephan<sup>1</sup>, Vasin K.<sup>2</sup>, Schmidt Michael<sup>1</sup>, Loidl Alois<sup>1</sup>, Ţurcan Vladimir<sup>1,3</sup>, Eremin M.<sup>2</sup>, Deisenhofer Joachim<sup>1</sup>*

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### **Physical Review B**

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### **Structure, phonons, and orbital degrees of freedom in Fe<sub>2</sub>Mo<sub>3</sub>O<sub>8</sub>**

*Reschke Stephan<sup>1</sup>, Tsirlin Alexander A.<sup>1</sup>, Khan Nazir<sup>1</sup>, Prodan Lilian<sup>1,2</sup>, Țurcan Vladimir<sup>1,2</sup>, Kezsmarki Istvan<sup>1</sup>, Deisenhofer Joachim<sup>1</sup>*

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### **Structure, superconductivity, and magnetism in Rb<sub>1-x</sub>Fe<sub>1.6</sub>Se<sub>2-z</sub>S<sub>z</sub>**

*Croitori Dorina<sup>1</sup>, Filippova Irina<sup>1</sup>, Kravțov Victor<sup>1</sup>, Günther Axel<sup>2</sup>, Widmann Sebastian<sup>2</sup>, Reuter Daniel<sup>2</sup>, Krug Von Nidda Hans Albrecht<sup>2</sup>, Deisenhofer Joachim<sup>2</sup>, Loidl Alois<sup>2</sup>, Țurcan Vladimir<sup>1</sup>*

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### **Infrared-active phonons in the ferrimagnetic and multiferroic phases of FeCr<sub>2</sub>S<sub>4</sub>: Evidence for structural distortions**

*Deisenhofer Joachim<sup>1</sup>, Mayr Franz<sup>1</sup>, Schmidt Michael<sup>1</sup>, Loidl Alois<sup>1</sup>, Țurcan Vladimir<sup>1,2</sup>*

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### **Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet MgCr<sub>2</sub>O<sub>4</sub>**

*Gao Shang<sup>1</sup>, Țurcan Vladimir<sup>2,3</sup>*

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### **Physical Review B**

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### **Lattice modes and the Jahn-Teller ferroelectric transition of GaV<sub>4</sub>S<sub>8</sub>**

*Hlinka Jiri<sup>1</sup>, Borodavka Fedir<sup>1</sup>, Rafalovskyi Iegor<sup>1</sup>, Docekalova Zuzana<sup>1</sup>, Pokorný Jan<sup>1</sup>, Gregora Ivan, Țurcan Vladimir<sup>2,3</sup>, Nakamura Hiroyuki<sup>4</sup>, Mayr Franz<sup>2</sup>, Kuntscher Christine A.<sup>2</sup>, Loidl Alois<sup>2</sup>, Bordacs Sandor<sup>5</sup>, Szaller David<sup>5</sup>, Lee Hyun-jae<sup>6</sup>, Lee Jun Hee<sup>6</sup>, Kezsmarki Istvan<sup>2,5</sup>*

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## Physical Review B

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### Optically Driven Collective Spin Excitations and Magnetization Dynamics in the Néel-type Skyrmion Host GaV4 S8

*Padmanabhan Prashant<sup>1,2</sup>, Sekiguchi Fumiya<sup>1</sup>, Versteeg Rolf B.<sup>1</sup>, Slivina Evgeniia<sup>1</sup>, Țurcan Vladimir<sup>3,4</sup>, Bordacs Sandor<sup>5,6</sup>, Kezsmarki Istvan<sup>3,5</sup>, Van Loosdrecht Paul H.M.M.<sup>1</sup>*

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## Physical Review Letters

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### Magnetic and geometric control of spin textures in the itinerant kagome magnet Fe3Sn2

*Altthaler Markus<sup>1,2</sup>, Lysne Erik Nikolai<sup>3</sup>, Roede Erik Dobloug<sup>3</sup>, Prodan Lilian<sup>2</sup>, Țurcan Vladimir<sup>2,4</sup>, Kassem Mohamed A.<sup>3</sup>, Nakamura Hiroyuki<sup>5</sup>, Krohns Stephan<sup>2</sup>, Kezsmarki Istvan<sup>2</sup>, Meier Dennis<sup>1</sup>*

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