

Articles in ISI journals

1. Dielectric spectrum of rare-earth-doped calcium fluoride crystals

Journal of Crystal Growth, **287** (2006) 234-238

I. Nicoara, M. Munteanu, N. Pecincina-Girjioaba, **M. Stef**, L. Lighezan

2. Dielectric relaxation in PbF₂ -doped and X-ray irradiated CaF₂ crystals

ECS Transactions, **3**, 11 (2006) 51-58.

I. Nicoara, M. Munteanu, N. Pecincina-Girjioaba, **M. Stef**, L. Lighezan

3. Dielectric spectra of doped and X-ray irradiated calcium fluoride crystals

Phys. Status Solidi C **4** (2007) 1234-1237

I. Nicoara, M. Munteanu, N. Pecincina-Girjioaba, **M. Stef**, E. Preda and A. Lucaci

4. Some dielectric and optical properties of ErF₃ -doped CaF₂ crystals.

Journal of Crystal Growth, **310** (2008) 2020-2025

I. Nicoara, M. Munteanu, E. Preda, **M. Stef**

5. Growth of YbF₃-doped CaF₂ crystals and characterization ob Yb³⁺/Yb²⁺ conversion.

Journal of Crystal Growth **310** (2008) 1470-1475

I. Nicoara, **M. Stef**, A. Pruna

6. Influence of various impurities on the optical properties of YbF₃ doped CaF₂ crystals

Acta Physica Polonica A **112** (2007) 1013-1018

M. Stef, A. Pruna, N. Pecincina-Girjioaba, I. Nicoara

7. Dielectric spectra of Li⁺ (Na⁺) codoped CaF₂:YbF₃ crystals

Phys. Status Solidi A **206** (2009) 738-744

A. Pruna, **M. Stef**, I. Nicoara

8. Concentration dependence of Judd-Ofelt parameters of Er³⁺ ions in CaF₂ crystals.

Physica Scripta **79** (2009) 035304

E. Preda, **M. Stef**, G. Buse, A. Pruna, I. Nicoara

9. Some dielectric and optical properties of PbF₂ -codoped CaF₂:YbF₃ crystals.

Physica Scripta **T135** (2009) 014044

M. Stef, G. Buse, A. Pruna, I. Nicoara

10. Judd-Ofelt analysis of the Er³⁺ absorption intensities of double-doped CaF₂ :(Er³⁺, Yb³⁺)

crystal



AIP Conference Proceedings, **1131** (2009) 131-135

G. Buse, E. Preda, **M. Stef**, A. Pruna, F. Stef, I. Nicoara

11. Luminescence spectrum and Judd-Ofelt analysis of CaF₂:0,83 mol% ErF₃

AIP Conference Proceedings, **1131** (2009) 126-130

E. Preda, **M. Stef**, G. Buse, A. Pruna, F. Stef, I. Nicoara

12. Influence of Li⁺ and Na⁺ ions on the dielectric spectra of YbF₃ doped and LiF, NaF codoped CaF₂ crystals

AIP Conference Proceedings, **1131** (2009) 121-125

A. Pruna, **M. Stef**, G. Buse, I. Nicoara

13. Segregation coefficient of Pb²⁺ ions in CaF₂ crystals

AIP Conference Proceedings, **1131** (2009) 112-116

M. Stef, O. Bunoiu, M. Paraschiva, A. Pruna, I. Nicoara

14. Effective segregation coefficient of Er³⁺ ions in ErF₃-doped CaF₂ crystals.

M. Munteanu, **M. Stef**, O. Bunoiu, I. Nicoara

Physica Scripta **81** (2010) 035602

15. Distribution of Pb²⁺ ions in PbF₂-doped CaF₂ crystals.

M. Paraschiva, I. Nicoara, **M. Stef**, O.M. Bunoiu

Acta Physica Polonica A **117** (2010) 466-470

16. *Influence of the Er³⁺ ions concentration on the structural deformation in doped CaF₂ crystals*

I. Nicoara, M. Munteanu, **M. Stef**, E. Preda, G. Buse

AIP Conference Proceedings **1262** (2010) 104-107

17. *Influence of Yb³⁺ ions on the optical properties of double-doped Er, Yb:CaF₂ crystals*

G. Buse, E. Preda, **M. Stef**, I. Nicoara

Physica Scripta **83** (2011) 025604

18. *Interface shape studies in Bridgman growth of multicrystalline silicon*

O. Bunoiu, **M. Stef**, A. Popescu, D. Vizman

AIP Conference Proceedings **1387** (2011) 226-231

19. *Study of Na⁺ ions influence on the charge compensating defects in CaF₂:YbF₃ crystals using dielectric relaxation*

I. Nicoara, **M. Stef**

European Physical Journal B **85** (2012) art. no. 180



20. *Growth and spectroscopic characterization of Pb²⁺:CaF₂ crystals*

I. Nicoara, M. Paraschiva, **M. Stef**, F. Stef

European Physical Journal B **85** (2012) art. no. 292

21. *Influence of Pb²⁺ ions on the morphology of etch pits and dislocation density of CaF₂:YbF₃ crystals.*

M. Stef, F. Stef, G. Buse, I. Nicoara

AIP Conference Proceedings **1472** (2012) 192-197

22. *Dielectric relaxation in ytterbium- and lead- doped calcium fluoride crystals,*

M. Stef, I. Nicoara, F. Stef

European Physical Journal B **86** (2013) art. no. 152

23. *Influence of Pb²⁺ and Na⁺ ions on the spectroscopic properties of CaF₂:Yb³⁺ crystals*

M. Stef, I. Nicoara, F. Cirlan, I. Para, M. Velazquez, G. Buse,

AIP Conference Proceedings **1694** (2015) 030005-1 - 6

24. Investigation on crude and high-temperature heated coffee oil by ATR-FTIR spectroscopy along with antioxidant and antimicrobial properties

D.N. Raba, M.A. Poiana, A.B. Borozan, **M. Stef**, F. Radu, M.V. Popa,

PLOS ONE (2015) 1-20

25. Charge compensating defects study of YbF₃-doped BaF₂ crystals using dielectric loss

I. Nicoara, **M. Stef**,

Phys. Status Solidi B **253** (2016) 397-403

Articles in non-ISI journals

1. Dielectric relaxation in erbium and Lanthanum –doped calcium fluoride crystals Sustainability for humanity & environment in the extended connection field science-economy-policy, Ed.

Politehnica, ISBN 973-625-206-X, Vol. 2 (2005)137-140

M. Munteanu, N. Pecincina-Girjoaba, M. Stef, I. Nicoara

2. The dielectric spectrum of Erbium doped calcium fluoride crystals

Analele Universității de Vest din Timișoara **45** (2004) 115-119

M. Munteanu, N. Pecincina-Girjoaba, M. Stef, I. Nicoara



3. Activation energy of various structural defects in pure and ErF₃ doped CaF₂

Analele Universității de Vest din Timișoara **47** (2005) 9-14.

M. Stef, M. Munteanu, N. Pecingine-Girjoaba, I. Nicoara

4. Judd-Ofelt analysis of Er³⁺ ions in CaF₂ crystals

Analele Universității de Vest din Timișoara **49** (2006) 123-128

A. Lucaci, **M. Stef**, E. Preda, I. Nicoara

5. Some optical and dielectric properties of YbF₃-doped CaF₂ crystals

Analele Universității de Vest din Timișoara **49** (2006) 129-133

I. Nicoara, M. Munteanu, N. Pecingine-Girjoaba, **M. Stef**, L. Lighezan

6. Effect of surface orientation on the dielectric spectra of ErF₃-doped CaF₂ crystals

Analele Universității de Vest din Timișoara **51** (2007) 32-35

I. Nicoara, M. Munteanu, E. Preda, **M. Stef**

7. Some optical properties of Yb²⁺ ions in CaF₂ crystals

Analele Universității de Vest din Timișoara **51** (2007) 36-39

I. Nicoara, **M. Stef**, A. Pruna

8. Dopant concentration distribution of rare-earth doped CaF₂ crystals

Analele Universității de Vest din Timișoara **51** (2007) 141-144

O. Bunoiu, M. Munteanu, E. Preda, I. Nicoara, **M. Stef**

Books and book chapters

1. *Characterization of structural defects in crystals*, **M. Stef**, I. Nicoara, ed. Marineasa, Timișoara,

2009 (ISBN 978-973-631-595-4) – in romanian

2. *Modern aspects of bulk crystal and thin film preparation*, Editors: N. Kolesnikov, E.

Borisenco, Book chapter 4: *Growth and characterization of doped CaF₂ crystals*, I. Nicoara, **M.**

Stef, Ed. InTech 2012, ISBN 978-953-307-610-2 – in english

3. *Growth and characterization of CaF₂:YbF₃ crystal*, **M. Stef**, Editura Eurobit, Timișoara 2012,

ISBN 978-973-620-896-6 – in romanian

4. *Teste grilă de fizică*, **M. Stef**, V.E. Ambruș, A.M. Barb, Editura Universității de Vest, Colecția

Amfiteatru, Seria Fizică, Timișoara. **2016**.



International conferences

1. Scientific reunion of the special program of the Alexander von Humboldt Foundation concerning the reconstruction of the South Eastern Europe, Timisoara, Romania, Februray 24-25, 2005

Dielectric relaxation in erbium and lanthanum doped calcium fluoride crystals
M. Munteanu, N. Picingina-Girjioaba, **M. Stef**, I. Nicoara

2. The 16th American Conference on Crystal Growth and Epitaxy, July 10-14, 2005, Big Sky, Montana, USA (ACCGE-16)

Dielectric spectrum of rare-earth-doped calcium fluoride crystals
I. Nicoara, M. Munteanu, N. Picingina-Garjoaba, **M. Stef**, L. Lighezan

3. 10th Europhysics Conference on Defects in Insulating Materials, Milano, July 10-14, 2006 (EURODIM 2006)

Dielectric spectra of PbF₂-doped and LiF, NaF codoped CaF₂ crystals
I. Nicoara, M. Munteanu, N. Picingina-Garjoaba, **M. Stef**, E. Preda, A. Lucaci,

4. 210th Electrochemical Society Meeting-Cancun, Mexico, Oct.29-Nov.03, 2006 (ECS-210)

Dielectric relaxation in PbF₂-doped and RX irradiated CaF₂ crystals
I. Nicoara, M. Munteanu, N. Picingina-Garjoaba, **M. Stef**, L. Lighezan

5. The 15-th International Conference on Crystal Growth, August 12-17, 2007, Salt Lake City, Utah, USA (ICCG-15)

5.1. *Some dielectric and optical properties of ErF₃-doped CaF₂ crystals*
I. Nicoara, M. Munteanu, E. Preda, **M. Stef**

5.2. *Growth of YbF₃-doped CaF₂ crystals and characterization of Yb³⁺/Yb²⁺ conversion*
I. Nicoara, **M. Stef**, L. Lighezan

6. International School and Conference on Optics and Optical Materials, Belgrade, Serbia, 3-7 sept. 2007 (ISCOM 2007)

Influence of various impurities on the optical properties of YbF₃ doped CaF₂ crystals
M. Stef, A. Pruna, N. Picingina-Garjoaba, I. Nicoara

7. The 21st Conference on Crystal Growth and Epitaxy - West, June 8 - 11 2008, Stanford Sierra Camp Fallen Leaf Lake, CA (ACCGE|West 21)

7.1. *Concentration distribution of Pb²⁺ ions in PbF₂ -doped CaF₂ crystals studied by optical absorption method*
I. Nicoara, **M. Stef** and O. Bunoiu

7.2. *Dielectric spectra of Li⁺ (Na⁺) -codoped YbF₃:CaF₂ crystals*
I. Nicoara, **M. Stef**, A. Pruna

8. The 15th Central European Workshop on Quantum Optics, May 29 - June 3, 2008, Belgrade, Serbia (CEWQO 2008)

Some dielectric and optical properties of PbF₂ and YbF₃ -doped CaF₂ crystals
M. Stef, G. Buse, A. Pruna and I. Nicoara

9. The 8th International Conference on Physics of Advanced Materials, Iasi, June 4-7, 2008 (ICPAM-8)

Concentration distribution of Yb³⁺ and Er³⁺ - ions in CaF₂ crystals



I. Nicoara, O. Bunoiu, **M. Stef**, G. Buse

10. **The 15th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter, July 7 - 11 2008, Lyon, France (ICL'08)**

10.1. *Influence of Li⁺ and Na⁺ ions on the luminescence spectra of YbF₃ doped CaF₂ crystals*
I. Nicoara, A. Pruna, **M. Stef**

10.2. *Influence of Pb²⁺ ions on the spectroscopic properties of YbF₃ doped CaF₂ crystals*
M. Stef, I. Nicoara, O. Bunoiu, A. Pruna

11. **Romanian Conference on Advanced Materials, August 25-28, 2009, Brasov, Romania (ROCAM 2009)**

11.1. *Influence of Yb³⁺ and Yb²⁺ ions on the optical properties of Er³⁺ in double-doped CaF₂:Er, Yb crystal*
G. Buse, E. Preda, **M. Stef**, I. Nicoara

11.2. *Optical spectroscopy of Na⁺ co-doped CaF₂:YbF₃ crystals*
A. Pruna, **M. Stef**, G. Buse, I. Nicoara

11.3. *Dislocations density and etch pits morphology on celavage plane of Na⁺ and Li⁺ co-doped CaF₂:YbF₃ crystals*
A. Pruna, **M. Stef**, G. Buse, E. Preda, I. Nicoara

11.4. *Luminescence spectra of Pb²⁺ co-doped CaF₂:YbF₃ crystals*
F. Stef, E. Preda, **M. Stef**, I. Nicoara

11.5. *Concentration dependence of some physical properties of PbF₂ doped CaF₂ crystals*
M. Paraschiva, A. Pruna, **M. Stef**, I. Nicoara

12. **The 16th International Conference on Crystal Growth, August 8-13, 2010, Beijing, China (ICCG-16)**

12.1. *Influence of Na⁺ ions on the charge compensating defects in CaF₂:YbF₃ crystals*
I. Nicoara, **M. Stef**

12.2. *Influence of Pb²⁺ ions on the spectroscopic properties of Yb²⁺ ions in CaF₂:YbF₃*
M. Stef, I. Nicoara

12.3. *Encapsulated Bridgman solidification of multi-crystalline silicon*
O. Bunoiu, **M. Stef**, A. Popescu, I. Nicoara, D. Vizman, J. Friedrich

13. **The 12th International Balkan Workshop in Applied Physics, July 6-8, 2011, Constanta, Romania (IBWAP-12)**

Experimental study of grains size and interface shape in multicrystalline silicon grown by Bridgman method

V. Pupazan, V. Poenaru, I. Sarbu, **M. Stef**, M. Bunoiu, D. Vizman

14. **III International School and Conference on Photonics, August 29 - September 2, 2011, Belgrade, Serbia (PHOTONICA 2011)**

14.1. *Interface shape studies in Bridgman growth of multicrystalline silicon*
M. Bunoiu, **M. Stef**, A. Popescu, D. Vizman

14.2. *Influence of Na⁺ ions on the dielectric spectra of double doped (YbF₃, NaF):CaF₂ crystals*
M. Stef and I. Nicoara



15. European Conference on Crystal Growth, June 17 - 20, 2012, Glasgow, Scotland (ECCG4)

15.1. Growth and characterization of small diameter multi-crystalline silicon grown by Bridgman technique

V. Pupazan, **M. Stef**, I. Nicoara, O. Bunoiu, D. Vizman

15.2. Growth and characterization of Pb²⁺ ions doped CaF₂ crystals

I. Nicoara, **M. Stef**, M. Paraschiva, F. Stef

16. The 7th International Conference on Advanced Materials, August 28 - 31, 2012, Brasov, Romania (ROCAM 2012)

16.1. Effects of growth parameters on the quality of multi-crystalline silicon grown by a Bridgman technique

O. Bunoiu, V. Pupazan, **M. Stef**, A. Popescu, D. Vizman

16.2. Dielectric relaxation in YbF₃ doped and NaF co-doped CaF₂ crystals

M. Stef, F. Stef, I. Nicoara

17. The 19th American Conference on Crystal Growth and Epitaxy, July 21-26, 2013, Keystone, Colorado, USA

Influence of various impurities on the C_{4v} and clusters type charge compensating defects in CaF₂:YbF₃ crystals

M. Bunoiu, I. Nicoara, **M. Stef**

18. 17th International Conference on Crystal Growth and Epitaxy (ICCGE-17), August 11-16, 2013, Warsaw, Poland

18.1. Effects of crucible coating on the quality of multi-crystalline silicon growth by a Bridgman technique

V. Pupazan, R. Negrilă, **M. Stef**, M. Bunoiu, I. Nicoara, D. Vizman

18.2. Influence of Na⁺ and Pb²⁺ ions on the optical properties of Yb²⁺ ions in YbF₃ doped CaF₂ crystals

M. Stef, I. Nicoara

19. International Conference on Lasers in Medicine, September 19-21, 2013, Timisoara, Romania (ICLM)

19.1. Laser crystals used for medical applications

M. Bunoiu, **M. Stef**, I. Nicoara

19.2. Influence of Na⁺ and Pb²⁺ ions on the light emission intensity in YbF₃ doped CaF₂ crystals

I. Nicoara, **M. Stef**, M. Bunoiu

20. The 14th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanța, Romania (IBWAP-14)

20.1. Effective segregation coefficient of rare-earth ions in fluorite crystals

M. Bunoiu, **M. Stef**, I. Nicoara

20.2. Some optical properties of YbF₃ doped BaF₂ and CaF₂ crystals

M. Bunoiu, **M. Stef**, G. Buse, I. Nicoara

21. 10th International Conference on Physics of Advanced Materials, September 22-28, 2014, Iasi, Romania (ICPAM-10) – oral presentation

Influence of various impurities on the compensating defects in YbF₃ doped CaF₂ crystals



M. Bunoiu, M. Stef, I. Nicoara

22. The 8th International Conference on Advanced Materials – ROCAM 2015, July 07-10, 2015, Bucharest, Romania

Dislocation density and etch pits morphology on cleavage plan of YbF₃ doped BaF₂ crystals
M. Stef, I. Nicoara

23. The 4th International Conference on the Physics of Optical Materials and Devices (ICOM-2015), August 31st – September 4th 2015, Becici, Montenegro

Growth and spectroscopic characterization of YbF₃ doped BaF₂ crystals
M. Stef, I. Nicoara

24. Fifth European Conference on Crystal Growth (ECCG5), September 9-11, 2015, Bologna, Italy

24.1. Some optical properties of YbF₃-doped BaF₂ crystals
I. Nicoara, M. Stef, O.M. Bunoiu

24.2. Study of charge compensating defects in BaF₂:YbF₃ crystals using dielectric relaxation
I. Nicoara, M. Stef, O.M. Bunoiu

25. 8th International Conference Materials Science and Condensed Matter Physics (MSCMP 2016), September 12-16, 2016, Chisinau, Republic of Moldova

Comparative study of luminescence concentration quenching of ⁴S_{3/2} state in Y_{2-x}Er_xO₃ and Y_{3-x}Er_xGa₅O₁₂
A.V. Racu, M.C. Pascariu, I. Sebarchievici., Z. Szabadai, A. Micu, O. Kulikova, M. Stef

National conferences

1. Physics Conference, TIM-04, Timisoara, 26-27 Nov. 2004

Dielectric spectrum of pure and rare-earth ions doped CaF₂
M. Munteanu, N. Pecincige-Garjoaba, O.M.Bunoiu, M. Stef, I. Nicoara

2. Physics Conference, TIM-05, Timisoara, 25-26 Nov. 2005

Activation energy of various structural defects in pure and ErF₃ doped CaF₂
M. Stef, M. Munteanu, N. Pecincige-Garjoaba, I. Nicoara

3. Physics Conference, TIM-06, Timisoara, 24-25 Nov. 2006

3.1. Judd-Ofelt analysis of Er³⁺ ions in CaF₂ crystals
A. Lucaci, M. Stef, E. Preda, I. Nicoara

3.2. Some optical and dielectric properties of CaF₂:PbF₂ crystals

I. Nicoara, M. Munteanu, N. Pecingina-Garjoaba, M. Stef, L. Lighezan

3.3. Some, optical and dielectric properties of YbF₃–doped CaF₂ crystals

Irina Nicoara, M. Munteanu, N. Pecingina-Garjoaba, M. Stef, L. Lighezan

4. Physics Conference, TIM-07, Timisoara, 23-24 Nov. 2007

4.1. Effect of surface orientation on the dielectric spectra of ErF₃-doped CaF₂ crystals
I. Nicoara, M. Munteanu, E. Preda, M. Stef

4.2. Some optical properties of Yb²⁺ ions in YbF₃: CaF₂ crystals



I. Nicoara, **M. Stef**, A. Pruna

5. **The 5th Conference on Condensed Matter Physics, 16 - 18 July 2008, Timisoara (FMC 2008)**

Growth of ErF_3 doped CaF_2 crystals and determination of the segregation coefficient of Er^{3+} ions

I. Nicoara, O. Bunoiu, **M. Stef**, G. Buse and A. Pruna

6. **Conferinta Nationala de Fizica, Bucuresti-Magurele, Sept. 10-13, 2008 (CNF 2008)**

6.1. Spectroscopic properties of PbF_2 -doped CaF_2 crystals

I. Nicoara, **M. Stef**, A. Pruna, G. Buse

6.2. Segregation coefficient of Er^{3+} and Yb^{3+} -ions in CaF_2 crystals

O. Bunoiu, **M. Stef**, A. Pruna, G. Buse, I. Nicoara

6.3. Spectroscopic properties of LiF (NaF) codoped $CaF_2:YbF_3$ crystals

A. Pruna, **M. Stef**, G. Buse, I. Nicoara

7. **Physics Conference, TIM-08, Timisoara, 28-29 nov. 2008**

7.1. Segregation coefficient of Pb^{2+} ions in PbF_2 -doped CaF_2 crystals

M. Stef, O. Bunoiu, M. Paraschiva, A. Pruna and I. Nicoara

7.2. Influence of Li^+ and Na^+ ions on the dielectric spectra of YbF_3 -doped and LiF , NaF co-doped CaF_2 crystals

A. Pruna, **M. Stef**, G. Buse and I. Nicoara

7.3. Influence of Li^+ and Na^+ ions on the dislocation density of YbF_3 -doped and LiF , NaF co-doped CaF_2 crystals

A. Pruna, **M. Stef**, G. Buse and I. Nicoara

7.4. Luminescence spectra and Judd-Ofelt analysis of $CaF_2:0.7$ mol% ErF_3 crystal

E. Preda, **M. Stef**, G. Buse, A. Pruna, F. Stef and I. Nicoara

7.5. Luminescence spectra of PbF_2 -doped CaF_2 crystals

I. Nicoara, **M. Stef**, M. Paraschiva, F. Stef, A. Pruna and G. Buse

7.6. Judd-Ofelt analysis of the Er^{3+} of double-doped $CaF_2:(Er^{3+}, Yb^{3+})$ crystal

G. Buse, E. Preda, **M. Stef**, A. Pruna, F. Stef and I. Nicoara

8. **Physics Conference, TIM-09, Timisoara, 27-28 nov. 2009**

8.1. Influence of Na^+ ions on the charge compensating defects types in $CaF_2:YbF_3$ crystals

I. Nicoara, A. Pruna, **M. Stef**, F. Stef

8.2. Influence of the Er^{3+} ions concentration on the structural defects formation in ErF_3 doped CaF_2 crystals

I. Nicoara, M. Munteanu, **M. Stef**, E. Preda, G. Buse

9. **Conferinta Nationala de Fizica (CNF 2010), Iasi, 23-25 sept. 2010**

9.1. Bridgman solidification of multi-crystalline silicon

M. Bunoiu, **M. Stef**, A. Popescu, I. Nicoara, D. Vizman, J. Friedrich

9.2. Influence of the Pb^{2+} ions on the dielectric properties of $CaF_2:ErF_3$ doped CaF_2 crystals

M. Stef, I. Nicoara, F. Stef, E. Preda



10. Physics Conference, TIM-10, Timisoara, 25-27 nov. 2010

10.1. Etch pits morphology and dislocation distribution in double-doped (Er, Yb):CaF₂ crystals
G. Buse, **M. Stef**, M. Bunoiu, I. Nicoara

10.2. Some spectroscopic properties of PbF₂-doped CaF₂ crystals
F. Stef, **M. Stef**, M. Paraschiva, E. Preda, N. Leauta, I. Nicoara

10.3. Crystal growth and characterization of multicrystalline silicon for photovoltaic applications
O. Bunoiu, **M. Stef**, A. Popescu, P. Barvinschi, I. Nicoara, D. Vizman, J. Friedrich

11. Physics Conference, TIM-11, Timisoara, 24-27 nov. 2011

11.1. Dielectric spectrum of double-doped (Er, Yb):CaF₂ crystals
G. Buse, F. Stef, **M. Stef**, I. Nicoara

11.2. Influence of Pb²⁺ ions on the morphology of etch pits and dislocation density of CaF₂:YbF₃ crystals
M. Stef, F. Stef, G. Buse, E. Preda, I. Nicoara

12. Physics Conference, TIM-12, Timisoara, 29 nov. - 2 dec. 2012

12.1. Influence of Pb²⁺ ions on the dielectric properties of YbF₃ doped CaF₂ crystals
F. Stef, I. Nicoara, **M. Stef**, E. Preda, S. Macovei

12.2. Influence of Pb²⁺ and Na⁺ ions on the spectroscopic properties of CaF₂:Yb³⁺ crystals
M. Stef, I. Nicoara, F. Stef, M. Velazquez, V. Jubera, G. Buse

13. Physics Conference, TIM-13, Timisoara, 21 nov. - 24 dec. 2013

13.1. Some optical properties of BaF₂:YbF₃ and CaF₂:YbF₃ crystals
F. Stef, I. Nicoara, **M. Stef**, E. Preda, S. Macovei

13.2. The dislocations study of YbF₃ doped BaF₂ crystals
M. Stef, I. Nicoara, F. Cirlan

13.3. Segregation coefficient of Yb²⁺ and Yb³⁺ ions in BaF₂:0.17 mol% YbF₃ crystal
M. Stef, I. Nicoara, F. Cirlan

14. Physics Conference, TIM-14, Timisoara, 20 nov. - 22 dec. 2014

14.1. Influence of YbF₃ concentration on the dislocation density on (111) surface on YbF₃ doped BaF₂ crystals
F. Cirlan, **M. Stef**, G. Buse, M. Bunoiu, I. Nicoara

14.2. Influence of some impurities on the emission properties of CaF₂:Yb³⁺ crystals
M. Stef, I. Nicoara, F. Cirlan, I. Para, M. Velazquez, G. Buse

14.3. Rheological characterization of the ovine ruminal fluid
I. Cretescu, C. Mateescu, O. Marinica, M. Neagu, A. Neagu, **M. Stef**, O. Munteanu

14. Physics Conference, TIM-15-16, Timisoara, 26 – 28 may 2016

14.1. Optical study of Yb³⁺-Yb²⁺ charge conversion in the as-grown YbF₃-doped CaF₂ crystals
M. Stef, I. Nicoara, L. Rosu, A. Simon, A. Racu, M. Corcodel, F. Cirlan, M. Bunoiu

14.2. Luminescence concentration quenching of ⁴S_{3/2} state in Y_{2-x}Er_xO_{2-x} microtubes
A. Racu, C. Pascariu, Z. Szabadai, A. Micu, O. Kuliukova, **M. Stef**



14.3. Experimental study of proton irradiation effect on silicon solar cells,
M. Paulescu, D. Vizman, M. Lascu, R. Negrilă, **M. Stef**

