

Alina Catrinel Ion
CURRICULUM VITAE



1. Legal status

Date and place of birth; 1.11.1963, Piatra Neamt, Romania

Married, one child

Nationality: Romanian

Professional address: University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Dept. of Analytical Chemistry and Environmental Engineering

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2. Employments: institutions, position, period

Period:	09.1987-03.1990	03.1990-02.1991	02.1991 - present
Institution:	FIBREX S.A. Savinesti	ICECHIM Bucharest Centre of Physical Chemistry	University Politehnica of Bucharest
Position:	Chemical engineer in the central laboratory of chemical analysis	Chemical researcher	1991-1995 assis. professor 1995-2000 lecturer 2000-2002 reader 2002-present professor

3. Education: University certificates and diplomas : institutions, dates, titles, mentions obtained

High school of mathematics and physics "Petru Rares" Piatra Neamt	University Politehnica Bucharest Faculty Chemical Technology	University Politehnica Bucharest Dept. of analytical chemistry	University of Antwerpen, Dept. of Mass Spectrometry	Interscience, Bruxelles, Belgium	Fogarty International Center-Univ. of Michigan, USA	TUV Akademie Rheinland ASRO, Romania	UEFISCDI, Romania	Ministry of National Education
1978-1982	1982-1987	1991 - 1996	2003-2004	2004	2006, 2009	2006, 2007	2011	2012
High School Diploma	University diploma chemical engineer, speciality organic chemistry	Doctor's title analytical chemistry	Postdoctoral stage in analytical hyphenated techniques	Training courses GC/MS maintenance	Training and Research in Environmental Health Training in characterization of carbon nanomaterials environmental applications	Internal auditor for food security certificate and for quality systems in laboratories, 22000,17025	Improvement of academic management diploma	Habilitation in chemistry and chemical engineering

4. Teaching activity

<i>Studies</i>	<i>Program</i>	<i>Course title</i>	<i>Activity</i>
<i>Bachelor</i>	Chemical engineering	Chromatographic methods applied in quality control of products	Course
<i>Bachelor</i>	Control and expertise of food products	Chromatographic methods and electrophoresis	Course/ practical work
<i>Bachelor</i>	Business management	Instrumental methods of analysis	Course/ practical work
Master	Quality control of products	Techniques and systems of evaluation of the quality of products	Course/ practical work
PhD	Chemistry and Chemical engineering	Environmental applications of carbon nanomaterials	Research

5. Stages of research: place, duration, kind of studies

1/04/1990 – 1/05/1990 – research stage at Max Plank Institute, Berlin, Germany, Pd recovery from hydrogenation catalysts

1/02/1993 – 31/08/1993 Tempus research stage at the Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands (Prof. D.N. Reinhoudt), analytical applications of supramolecular chemistry

1/02/1994 – 1/05/1994 Tempus research stage at the Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands (Prof. D.N. Reinhoudt), electrochemical sensors

1/04/1996 – 1/07/1996 Tempra research stage at the Dept. of Organic Electrochemistry and Redox Photochemistry, University Joseph Fourier, Grenoble, France (Prof. Eric Saint Aman), chemically modified electrodes for Ca

1/09/1997 – 1/12/1997 Nuffic postdoctoral stage at Dept. of Organic Chemistry, University of Twente, Enschede, the Netherlands the (Prof. D.N. Reinhoudt), ChemFETs for phosphate and fluoride

1/03/2000 – 1/09/2000 research stage at ETH Zurich, Switzerland (Prof Erno Pretsch), Ion selective electrodes for heavy metals

1/10/2000 – 1/03/2001 UREF AUPELF postdoctoral research stage (bourse d'excellence) at the Dept. Of Organic Electrochemistry and Redox Photochemistry, University Joseph Fourier, Grenoble, France (Prof. Eric Saint Aman), chemically modified electrodes for heavy metals

1/04/2001 – 1/06/2001 invited fellowship at ETH Zurich, Switzerland (Prof Erno Pretsch), low detection limit ion selective electrodes and their applications

1/10/2003 – 30/09/2004 postdoctoral stage in analytical hyphenated techniques (GC/MS), Department of Mass Spectrometry, University of Antwerpen, Belgium (prof. Magda Claeys), characterization of rural aerosols from K-puszta, Hungary.

7/10/2007 – 15/10/2007, training course in electrochemical impedance spectroscopy, Electrochemical Society ECS, San Francisco ,USA.

1/12/2008 – 31/03/2009 invited professor at Michigan State University, Dept. of Civil Engineering, USA to develop studies and projects in nanoparticles and their environmental applications; training in techniques of characterization of nanoparticles

1/08/2015 – 15/08/2015; 1/09/2017 – 15/09/2017 Erasmus teaching grants at RWTH Aachen, Germany

6. Foreign languages:

English - translator licence

French - DALF

German - B2

7. Research directions:

- electrochemical sensors: potentiometric and voltammetric sensors, miniaturized sensors;
- analytical applications (extractions and ion selective electrodes) of macrocyclic ligands;
- determination of contaminants in food, waters, soils and fertilizers.
- determination of organic pollutants in atmospheric environment
- carbon nanostructures and their food and environmental applications

Others

- scientific referent at Rev. Roum. Chim. from 2005
- scientific secretary of the Chemical Section of Romanian Academy 2004 -2006
- member in the editorial board of *Academica* – journal of the Romanian Academy from 2004
- member in the editorial board of *UPB Sci. Bull., Chem.and Materials Sci.Series*, from 1998
- evaluator of the national programmes CEEX (from 2005), CNCSIS(from 2001) and Romanian Academy (from 2007)
- member of Medical Research Initiative in South Eastern Europe from 2006
- member of ETP European Nanomedicine platform from 2006
- editor of the volume “Progress in nanoscience and nanotechnologies”, Micro and Nanoengineering series, 2007, 11, Editura Academiei Romane and of the volume „New applications of nanomaterials”, Micro and Nanoengineering series, 2014, 22, Editura Academiei Romane
- scientific referent at *Mat. Sci. Eng. C (MSEC)* (Elsevier) from 2007
- scientific referent at *International Journal of Environmental Analytical Chemistry* (Elsevier), from 2009
- Editor at *IJVEE* from 2009 (*International Journal of Vocational Engineering Education*)
- Instructor of environmental analytical chemistry at MSU international training courses, from 2010
- member of the Environmental Engineering Commission CNATDCU from 2016
- Co-ordinator of Erasmus bilateral agreements UBP (Romania) – RWTH Aachen (Germany) (2014-2021) and UPB (Romania)– Tuebingen University(Germany) (2017-2023)

Publications

Articles

C.M. Mihailescu, D.Stan,..., **A.C. Ion**, *Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum*, *Talanta*, 2020, 210, 120643.

I. Ion, G.R. Ivan,..., **A.C. Ion**, *Adsorption of triclocarban (TCC) onto fullerene C60 in simulated environmental conditions*, *Sep. Sci. Technol.*, 2019, 54(17), 2759-2772.

I Ion, R.M. Senin,..., **A.C. Ion**, *Influence of the matrix of aqueous solutions on the adsorption of endocrine disruptors by fullerene C60*, *J. Environ. Eng. & Landscape Manag.*, 2019, 27(1), 1-11.

R. M. Calin, I. Radulescu,...**A.C. Ion**, E.R. Almasan, *Investigations on chemical composition and natural radioactivity levels from salt water and peloid used in pelotherapy, from Techirghiol Lake, Romania*, *Environ. Geochem. & Health*, 2019, in press.

R.M. Calin, I. Ion, **A.C. Ion**..., *Assessment of chemical parameters and natural radionuclide concentrations in carbonated natural mineral water and contribution to radiation dose*, *Romanian J. Physics*, 2019, 64(1-2), 804.

L. Capra, M. Manolache, I. Ion, M. Deaconu, **A.C. Ion**, *Adsorption of Sb (III) on oxidized exfoliated graphite nanoplatelets*, *Nanomaterials*, 2018, 8(12), 992.

F. Sirbu, **A.C. Ion**, L. Capra, I. Ion, *A Thermodynamics Study on the Tetrahydrofuran Effect in Exfoliated Graphite Nanoplatelets and Activated Carbon Mixtures at Temperatures between 293.15 and 308.15K*, Advances in Materials Science and Engineering, 2018, Article ID 9106043.

Elena Radu¹, Elena-Emilia Oprea^{1,3}, Emil Stepan¹, Cristina Enascuta¹, Catalina Calin³, Rusandica Stoica¹, Gina Vasile Scaeteanu⁴, Luiza Capra¹, **Alina Catrinel Ion**^{2*}, *Adsorption of humic acids mixture obtained from microalgae on exfoliated graphite nanoplatelets*, Rev. Chim., 2018, 69(1), pp. 49-61.

R. M. Senin, I. Ion, O. Oprea, B. Vasile, R. Stoica, R. Ganea, **A. C. Ion**, *Sorption of bisphenol A in aqueous solution on fullerene C60*, Rev. Chim., 2018, 69 (6), 1309-1314.

R. M. Senin, I. Ion, O. Oprea, R. Stoica, R. Ganea, **A. C. Ion**, *Sorption of bisphenol A in aqueous solutions on irradiated and as-grown multiwalled carbon nanotubes*, Rev. Chim., 2018, 69 (5), 1233-1239.

R. M. Senin, I. Ion, **A. C. Ion**, *A sorption study of bisphenol A in aqueous solutions on pristine and oxidized multiwalled carbon nanotubes*, Polish Journal of Environmental Studies, 2018, 27(5), 1-13.

D. Bogdan, A.-O.A.J. Muklive, I. Ion, **A.C. Ion**, *Ammonium adsorption on oxidized exfoliated graphite nanoplatelets*, Environmental Engineering and Management Journal, 2017, 16 (3), pp. 543-552

D. Bogdan, I. Ion, I., F. Sirbu, **A.C. Ion**, *A possible distribution of nitrogen compounds during natural mineral waters disinfection treatment*, Environmental Engineering and Management Journal, 2017, 16 (3), pp. 597-603

E. Radu, **A.C. Ion**, F. Sirbu, I. Ion, *“Adsorption of endocrine disruptors on exfoliated graphene nanoplatelets”*, Environ. Eng. Management J., 14(3), 2015, 551-558, ISSN:1592-9596

M. Mihon, C. Tuta, R. Leonte, **A.C. Ion**, V. Lavric, D. Niculae, *An improved methodology for determination of radiochemical and chemical impurities in the synthesis process of ¹⁸F-FDG(2-[18F]Fluoro-2-deoxy-D-glucose)*, Environ. Eng. Management J., 14(2), 2015, 289-296, ISSN:1592-9596

M.R. Calin, **A.C. Ion**, I. Radulescu, *“Evaluation of quality parameters and of natural radionuclides concentrations in natural mineral water in Romania”*, J. Radioanal. Nucl. Chem., 2015, 303 (1), 305-313, ISSN:0236-5731

I. Ion, F. Sirbu, **A.C. Ion**, *“Thermophysical investigations of exfoliated graphite nanoplatelets and active carbon in binary aqueous environments at different temperatures”*, J. Mater. Sci. 50(2), 2014, 587-598, ISSN: 0022-2461

M. Simescu, C. Podia Igna, E. Nicolaescu, I. Ion, **A.C. Ion**, A. Caragheorgheopol, C. Neagu, M. Negru, M. Pribu, A. Kochanska-Dziurawicz, A. Stanjek-Ciochoracka, *“Int. J. Suz. Dev. Plann.”*, 9(1), 2014, 15-28, WIT Press Journals, ISSN 1743-7601

I. Ion, D. Bogdan, **A.C. Ion**, *“Improvement in the determination of traces of nitrate and nitrite in natural mineral waters by ion chromatography”*, UPB Sci. Bull., series B, 76(3), 2014, 113-123, ISSN: 1454-2331.

E. Radu, I. Ion, **A.C. Ion**, *„Chitosan oxidised exfoliated graphite nanoplatelets adsorptive materials for improved lead adsorption from aqueous solutions”*, I. Ion, D. Bogdan, A.C. Ion, *“Improvement in the determination of traces of nitrate and nitrite in natural mineral waters by ion chromatography”*, UPB Sci. Bull., series B, 76(4), 2014, 35-44, ISSN: 1454-2331

Carmen Moldovan, Rodica Iosub, Cecilia Codreanu, Bogdan Firtat, Daniel Necula, Marian Ion, Costin Brasoveanu, **Alina Catrinel Ion**, Ion Stan, „*Biosensor Array Based Platform for Pesticide Detection*”, *Sensor Lett.*, 11, 2013, pp. 1519-1523, ACS Publications, ISSN: 1546-198X

I. Ion, F. Sirbu, **A.C. Ion**, “*Density, refractive index, and ultrasound speed in mixtures of active carbon and exfoliated graphite nanoplatelets dispersed in N, N-dimethylformamide at temperatures from (293.15 to 318.15) K*”, *Journal of Chemical & Engineering Data*, 58(5), 2013, pp.1212-1222, ACS Publications, ISSN: 0021-9568

Alina C. Ion, Stephanie Bley, Ion Ion, Alina Culetu, Stanislav Zahov, Henner Hollert, Thomas-Benjamin Seiler, *Investigation of the contaminant sorption of treated Romanian soils using “batch” and biological toxicity assays*, *Catena* 101 (2013), 205-211, Elsevier, ISSN 0341-8162

I. Ion, **A.C. Ion**, *Differential pulse voltammetric analysis of lead in vegetables using a surface amino-functionalized exfoliated graphite nanoplatelet chemically modified electrode*, *Sensors & Actuators: B. Chemical* 166-167 (2012), 842-847, Elsevier, ISSN 0925-4005

I. Ion, **A.C. Ion**, *Determination of chlorpyrifos in broccoli using a voltammetric acetylcholinesterase sensor based on carbon nanostructure-chitosan composite material*, *Materials Science and Engineering C* 32 (2012), 1001-1004, Elsevier, ISSN 0928-4931

I. Ion, **A.C. Ion**, A. Culetu, *Application of an exfoliated graphite nanoplatelet- modified electrode for the determination of quinoxaline*, *Materials Science and Engineering C*, 31, 2011, pp.1553-1557, Elsevier, ISSN 0928-4931

Alina C. Ion, Alla Alpatova, I. Ion, Alina Culetu, *Study on phenol adsorption from aqueous solutions on exfoliated graphitic nanoplatelets*, *Materials Science and Engineering B* 176(7) (2011) 588–585, Elsevier, ISSN 0921-5107

A. C. Ion, I. Ion, A. Culetu, *Lead adsorption onto exfoliated graphitic nanoplatelets in aqueous solutions*, *Materials Science and Engineering B*, 176(6), 2011, pp. 504-509, Elsevier, ISSN 0921-5107

Florinela Sirbu, Olga Iulian, **Alina Catrinel Ion**, Ion Ion, “ *Activity Coefficient of Electrolytes in the NaCl + Na₂SO₄ + H₂O Ternary System from Potential Difference Measurements at (298.15, 303.15 and 308.15)*”, *Journal of Chemical & Engineering Data*, 56(12), 2011, pp.4935-4934, ACS Publications, ISSN: 0021-9568

A.C. Ion, I. Ion, A. Culetu, D. Gherase, C.A. Moldovan, R. Iosub, A. Dinescu, *Acetylcholinesterase voltammetric biosensors based on carbon nanostructure chitosan composite material for organophosphate pesticides*, *Materials Science and Engineering C*, 30(6), 2010, pp.817-821, Elsevier, ISSN 0928-4931

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S. Lupu, I. Ion, **A. C. Ion**, “*Voltammetric determination of phenol at platinum electrodes modified with polypyrrole doped with ferricyanide*”, *Revue Roumaine de Chimie* 54 (5), 2009, pp. 351-357, ISSN: 0035-3930

A. C. Ion, J. Costa, I. Ion, D. Gherase, A. Culetu, “*Potentiometric studies on methyl pyridine derivatives of 14-membered tetra aza macrocycles as selective ionophores for heavy metals*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 71 (4), 2009, pp. 41-42.

A.C. Ion, I. Ion, “*Short remarque on the provenience of nanoparticles in environmental samples*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 71 (1), 2009, pp. 13-20.

A. C. Ion, I. Ion, “*Electrode membranes selective for Ag⁺ and their applications in vitamin content potentiometric determination*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2008, 70 (3), pp. 31-38.

A. C. Ion, I. Ion, “*Observations on some polar organic compounds in rural aerosols*”, *Revue Roumaine de Chimie* 53 (2), 2008, pp. 133-139, ISSN: 0035-3930

A. C. Ion, I. Ion, L. Barbu, “*Chemically modified electrode for NO₂⁻ determination in environmental applications*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 69 (2), 2007, pp. 57-66.

A.C. Ion, I. Ion, L. Barbu, A. Ficai, D.N. Stefan, “*Environmental analytical applications of nanosensors*”, *Micro and Nanoengineering series*, 11, 2007, Editura Academiei Romane, pp. 231-239

A.C. Ion, I. Ion, L. Barbu, “*Optimization of preconcentration of cadmium and lead from samples with phosphate matrices using Chelex 100*”, *Rev. Roum. Chim.*, 51 (12), 2006, pp. 1219 – 1225, ISSN: 0035-3930

A.C. Ion, I. Ion, L. Barbu, M. Negru, a. Ficai, C. Neagu “*Potentiometric Hg(II) determination in clinical samples*”, *J Biomedical Eng. Technologia of Kaunas University of Technology*, 10(26-27), 2006, pp.77-81.

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I. Ion, **A.C. Ion**, “*Potentiometric determination of fluoride in groundwaters*”, *Rev. Roum. Chim.*, 50(5), 2005, pp. 413 – 418, ISSN: 0035-3930

Ion Ion, **A.C. Ion**, “*Potentiometric speciation of iron (II) and iron (III) in fertilizers by titration with cobalt (II) chloride*”, *Rev. Roum. Chim.*, 50 (4), 2005, pp.263 – 268, ISSN: 0035-3930

A.C. Ion, R.Vermeulen, I. Kourtchev, J.Cafmeyer, X.Chi, A.Gelencsér, W.Maenhaut, M.Claeys, *Polar organic compounds in rural PM_{2.5} aerosols from K-puszta, Hungary, during a 2003 summer field campaign: Sources and diel variations*, *Atmospheric Chemistry and Physics*, 5 (7), 2005, pp. 1805-1814, Elsevier, ISSN: 1680-7316

M.Claeys, W.Wang, **A.C. Ion**, I. Kourtchev, A.Gelencsér, W.Maenhaut, *Formation of secondary organic aerosols from isoprene and its gas-phase oxidation products through reaction with hydrogen peroxide*, Atmospheric Environment, 38 (25), 2004, pp. 4093-4098, Elsevier, ISSN: 1352-2310

M. Claeys, W. Wang, **A.C. Ion**, R. Vermeylen, I. Kourtchev, J.Cafmeyer and W. Maenhaut” *Characterization of isoprene oxidation products in rural continental aerosols*”, *International Conference on carbonaceous particles in the atmosphere*, Journal of Aerosol Science (Special Issue EAC 2004), vol. 35(S1), 2004, pp.153-155, Elsevier, ISSN: 0021-8502

I. Ion, **A. C. Ion**, E. Ruse, A. Ficai, “*Simultaneous spectrophotometric determination of iron (II) and iron (III) in natural waters*”, Sci. Technol. of Environ. Protection, vol.11 (1), 2004, pp.27 - 35.

A.C.Ion, I.Ion, L.Barbu, A.Ficai “*Potentiometric measurement of cadmium from fertilizers and soil*”, Science Technology of Environmental Protection, vol.10 (1), 2003, pp.21 - 28.

I.Ion, **A.C.Ion**, L.Barbu, “*Potentiometric determination of monobasic phosphate in waters*”, Science Technology of Environmental Protection, vol.9(2), 2002, pp.9 - 16.

A.C.Ion, I.Ion, M.M.G.Antonisse, B.H.M.Snelink-Ruel, D.N.Reinhoudt, “*Characteristics of an ion-selective electrode for fluoride determination in aqueous solution*”, Russian Journal of General Chemistry, vol. 71(2),2001, pp.159-161.(Translated from Zhurnal Obshchei Khimii, vol.71(2), 2001, pp.181-184), ISSN: 1070-3632

A.C. Ion, E.Bakker, E. Pretsch, *Potentiometric Cd²⁺ - selective electrode with a detection limit in the low ppt range*, (2001) Analytica Chimica Acta, 440 (2), 2001, pp. 71-79, Elsevier, ISSN 0003-2670

A.C.Ion, E. Bakker, E.Pretsch, Erratum: *Potentiometric Cd²⁺-selective electrode with a detection limit in the low ppt range* (Analytica Chimica Acta 440 (2001) (71-79) PII: S0003267001010522) (2002) Analytica Chimica Acta, 452 (2), p. 329, Elsevier, ISSN 0003-2670

N.Totir, S. Lupu, **A.C. Ion**, I. Ion, “*Analytical applications of chemically modified electrodes*”, Rev. Roum. Chim. 46(6), 2001, pp.3 – 13, ISSN: 0035-3930

A.C.Ion, I.Ion, M.M.G.Antonisse, B.H.M.Snelink-Ruel, D.N.Reinhoudt, “*Characteristics of an ion-selective electrode for fluoride determination in aqueous solution*”, Zh.Obshch.Khim., (in russian), vol.71(2), 2001, pp.181-184.

A.C.Ion, I.Ion, E.M.Ungureanu, E.Ruse, “*Preliminary study regarding thioethers applications in electrodic membranes selective for silver ion*”, Science Technology of Environmental Protection vol.7(1), 2000, pp.52 - 55.

E.M.Ungureanu, **A.C.Ion**, I.Ion, A.Popescu, “*Molecular redox receptors for cations sensing*”, Ovidius University Annals of Chemistry, vol. 11(1), 2000, pp.82 - 86.

M.M.G.Antonisse, B.H.M.Snellink-Ruël, **Alina C. Ion**, J.F.J.Engbersen, D.N.Reinhoudt, *Synthesis of novel uranyl salophene derivatives and evaluation as sensing molecules in chemically modified field effect transistors(CHEMFETs)* (1999) Journal of the Chemical Society. Perkin Transactions 2, (6), 1999, pp. 1211-1218, RSC, ISSN 1364-5471, [Organic & Biomolecular Chemistry \(2003-Present\)](#)

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N.Totir, E.M.Ungureanu, S.Lupu, C.Luca, **A.C.Ion**, I.Ion, “*Determination of heavy metals with chemically modified electrodes*”, Tehnologii, Calitate, Masini, Materiale, (T.C.M.M), 36, 1999, pp.132 - 139.

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A.C.Ion, I.Ion, S.Lupu, “*Solvent extraction of potassium metal picrate by benzo 15-crown-5 substituted uranyl salophene*”, Sci.Bull.Polyt.Inst.Bucharest, U.P.B.Sci.Bull.Series B, vol. 61(1-2), 1999, pp.39 - 46.

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A. Ion, I.Ion, A.Popescu, M.Ungureanu, J.-C.Moutet, E.Saint-Aman, *A ferrocene crown ether-functionalized polypyrrole film electrode for the electrochemical recognition of barium and calcium cations*, Advanced Materials, 9 (9), 1997, pp. 711-713, Wiley-VCH, ISSN 0935-9648

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I.Ion, **A.C.Ion**, L.Barbu, “*Metodă spectrofotometrică de determinare a nitriților din apele naturale*”, Izvestia Acad.Nauk Respubliki Moldova, Biologiceskii i Himiceskie Nauki, 2, 1993, pp.61 - 64.

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Books

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