

INDICES

Cumulative Contents of Volume 1

RESEARCH REVIEWS

Cytogenetic effects of irradiation on somatic and germ cells	7
<i>J. Egozcue, R. Álvarez, J.F. Barquinero, L. Barrios, M.R. Caballín, A. Genescà, R. Miró, I. Ponsa, and L. Tusell</i>	
Quantum tunneling of the magnetic moment	25
<i>J. Tejada, J.M. Hernández, E. Del Barco, and X.X. Zhang</i>	
Low-dimensional polynuclear complexes and high-spin molecules: towards molecular magnets	39
<i>J. Ribas i Gispert</i>	
Ultrafine particles produced by plasma enhanced chemical vapor. Deposition – from SiH ₄ , CH ₄ , NH ₃ and B ₂ H ₆ gas mixtures – for nanostructured ceramics applications	53
<i>E. Bertran, J. Costa, G. Viera, J.L. Andújar, A. Canillas, and E. Pascual</i>	
Solid particles formation from solutions, an intellectual and industrial meeting point and challenge	63
<i>R. Rodríguez-Clemente, J. Gómez-Morales, A. López-Macipe, J. García-Carmona, M. Ocaña, and C.J. Serna</i>	
Treatment of primary biliary cirrhosis	79
<i>L.I. Caballeria, A. Parés, and J. Rodés</i>	
Arithmetical problems in number fields, Abelian varieties and modular forms	125
<i>P. Bayer, A. Arenas, T. Crespo, J. Guàrdia, J.C. Lario, E. Nart, J. Quer, A. Rio, A. Travesa, N. Vila, and X. Xarles</i>	
Sudden cardiac death	147
<i>A. Martínez-Rubio, A. Bayés-Genís, J. Guindo, and A. Bayés de Luna</i>	
Possibilities of man machine interaction through the perception of human gestures	159
<i>J. Amat, A. Casals, M. Frigola, and J. Pagès</i>	
Crustal accretion at mid-ocean ridges and backarc spreading centers: Insights from the Mid-Atlantic Ridge, the Bransfield Basin and North Fiji Basin	175
<i>E. Gràcia, and J. Escartín</i>	
Knock, knock, knocking on muscle doors. Visions of the transport of substrates across the plasma membrane in muscle	267
<i>A. Zorzano, C. Fandos, and M. Palacín</i>	
Benthic suspension feeders, key players in Antarctic marine ecosystems?	299
<i>C. Orejas, J.M. Gili, W.E. Arntz, J.D. Ros, P.J. López, N. Teixidó, and P. Filipe</i>	
Genome fluidity. The case of plants	313
<i>J.M. Casacuberta, and P. Puigdomènech</i>	
Interrelationship of serum paraoxonase activity and paraoxonase genetic variants ontherosclerosis risk	323
<i>M. Sentí, M. Tomàs, R. Elosua, and J. Marrugat</i>	
Development and testing of galvanic anodes for cathodic protection	331
<i>J. Genescà, and J. Juárez</i>	
Quantum theory of QSAR	399
<i>R. Carbó-Dorca, and E. Besalú</i>	

Lasing without population inversion: towards continuous wave x-ray laser emission.....	423
<i>J. Mompart, V. Ahufinger, F. Silva, and R. Corbalán</i>	
Metallacarboranes containing <i>exo</i> -thio and <i>exo</i> -phosphinocarborane ligands. Their application in catalysis	435
<i>F. Teixidor, R. Núñez, and C. Viñas</i>	
Wastewater treatment improvement through an intelligent integrated supervisory system.....	451
<i>M. Poch, I. R. Roda, J. Comas, J. Baeza, J. Lafuente, M. Sánchez-Marrè, and U. Cortés</i>	
Methods in the treatment of obesity.....	463
<i>X. Remesar, J.A. Fernández-López, M. Foz, and M. Alemany</i>	
Risks of aluminium exposure during pregnancy	479
<i>J.L. Domingo, M. Gómez, and T. Colomina</i>	

FOCUS

Virus and cancer: a controversial theory.....	87
<i>F. Glick, and A. Roca</i>	
The ontological deficits of quantum reality	193
<i>R. Lapiedra</i>	
OMEGA: a system for the effective construction, coding and decoding of block error-correcting codes.....	199
<i>S. Xambó</i>	
The Catalan process for the direct production of malleable iron and its spread to Europe and the Americas	225
<i>E. Tomás</i>	
What a biologist should know about Physics	345
<i>S. Glashow</i>	
Fishery science: analysis and present situation	489
<i>C. Bas</i>	

FORUM

Notice on the Institute for Catalan Studies (IEC).....	99
Physics in Catalonia: 1990-1995	100
<i>D. Jou</i>	
Historical view and challenges of the Research Plans for Catalonia	104
<i>D. Serrat</i>	
Earth Sciences in Catalonia: 1990-1995	233
<i>D. Serrat, and S. Reguant</i>	
Physics research in Catalonia: the highly cited papers	237
<i>P. Senra, and L.I. Rovira</i>	
The Supercomputing Center of Catalonia (CESCA).....	245
Chemistry in Catalonia: 1990-1995	351
<i>S. Alegret, A. Aguilar, J. Sales, F. Sánchez, and M. Del Valle</i>	
Integrated research in Oenology	365
<i>A. Mas, and L.I. Arola</i>	
The Municipal Medical Research Institute	371
<i>J. Camí</i>	
Communication between scientists of different language, culture and field	511
<i>S. Reguant</i>	

Catalonia, the European Massachusetts, is it realistic?	515
<i>R. Franco</i>	

Institute for Space Studies of Catalonia	521
--	-----

HISTORICAL CORNER

The work of Santiago Ramón y Cajal in Barcelona	109
<i>J. Corbella</i>	

The centenary of the Catalan Institution for Natural History	249
<i>J. Maluquer</i>	

The Royal Academy of Sciences and Arts of Barcelona: an historical account	375
<i>R. Parés, J.M. Codina, and M. Puigcerver</i>	

Municipal Laboratory of Barcelona	381
<i>M. Centrich</i>	

BIOGRAPHY AND BIBLIOGRAPHY

Professor Fèlix Serratosa	527
<i>J. Castells</i>	

NEWS

The Centre de Recerca Matemàtica	113
--	-----

Trobades Científiques de la Mediterrània	114
--	-----

About IRTA	114
----------------------	-----

The seventy-fifth anniversary of Einstein's visit to Barcelona	251
<i>A. Roca</i>	

New members of the Institut d'Estudis Catalans	251
--	-----

The Rovira i Virgili University confers the title of Doctor Honoris Causa on Vinton Gray Cerf	383
---	-----

The Barcelona Biomedical Research Park	383
--	-----

Conference on Biodiversity and Biological Conservation	384
--	-----

5th International Congress on Durability of Concrete Held in Barcelona	385
--	-----

Creation of ISOCO, the first spin-off company of the CSIC devoted to artificial intelligence	386
--	-----

The EU-USA Consultative Forum on Biotechnology	386
--	-----

Scientists from Valencia and Barcelona take part in the deciphering of the complete genome of <i>Arabidopsis thaliana</i>	535
---	-----

The Biocampus Research Complex of the Autonomous University of Barcelona	535
--	-----

The Nobel Prize-Winners Robert Huber and Peter Doherty and the pathologist Robert E. Scully invested as doctors <i>Honoris Causa</i> by the Autonomous University of Barcelona	536
--	-----

The University of Valencia presents the Institute of Molecular Science	537
--	-----

Joan Massagué and Juan Carlos Izpisúa join the Barcelona Science Park	537
---	-----

The UAB and the UPC organise the first major congress on intelligent systems and robotics	538
---	-----

The Narcís Monturiol medals for scientific and technological merit	538
--	-----

The Institute of High-Energy Physics of the UAB participates in constructing the great telescope, MAGIC	539
---	-----

