

Eduardo Ruiz-Hitzky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

251
papers

11,472
citations

57
h-index

97
g-index

286
ext. papers

12,383
ext. citations

6.9
avg, IF

6.49
L-index

#	Paper	IF	Citations
251	MXene-Enhanced Chitin Composite Sponges with Antibacterial and Hemostatic Activity for Wound Healing.. <i>Advanced Healthcare Materials</i> , 2022 , e2102367	10.1	2
250	Gentamicin-Montmorillonite Intercalation Compounds as an Active Component of Hydroxypropylmethylcellulose Bionanocomposite Films with Antimicrobial Properties. <i>Clays and Clay Minerals</i> , 2021 , 69, 576	2.1	
249	Composite Nanoarchitectonics: Alginate Beads Encapsulating Sepiolite/Magnetite/Prussian Blue for Removal of Cesium Ions From Water. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 122-132	5.1	12
248	Sepiolite-Hydrogels: Synthesis by Ultrasound Irradiation and Their Use for the Preparation of Functional Clay-Based Nanoarchitected Materials. <i>Frontiers in Chemistry</i> , 2021 , 9, 733105	5	2
247	Hydrophobic composite foams based on nanocellulose-sepiolite for oil sorption applications. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126068	12.8	9
246	Pod-inspired MXene/porous carbon microspheres with ultrahigh adsorption capacity towards crystal violet. <i>Chemical Engineering Journal</i> , 2021 , 426, 130776	14.7	11
245	Graphene Derivatives in Biopolymer-Based Composites for Food Packaging Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
244	Biotechnological applications of the sepiolite interactions with bacteria: Bacterial transformation and DNA extraction. <i>Applied Clay Science</i> , 2020 , 191, 105613	5.2	8
243	Chitosan and pectin core-shell beads encapsulating metformin/clay intercalation compounds for controlled delivery. <i>New Journal of Chemistry</i> , 2020 , 44, 10102-10110	3.6	10
242	Ultrasound-assisted preparation of nanocomposites based on fibrous clay minerals and nanocellulose from microcrystalline cellulose. <i>Applied Clay Science</i> , 2020 , 189, 105538	5.2	8
241	Zein-layered hydroxide biohybrids: strategies of synthesis and characterization. <i>Materials</i> , 2020 , 13,	3.5	1
240	Theoretical and experimental investigation on the intercalation of metformin into layered clay minerals. <i>Applied Clay Science</i> , 2020 , 186, 105418	5.2	5
239	Improving the Impact Factor of Recent Patents on Nanotechnology. <i>Recent Patents on Nanotechnology</i> , 2020 , 14, 2	1.2	
238	Research and Patents on Coronavirus and COVID-19: A Review. <i>Recent Patents on Nanotechnology</i> , 2020 , 14, 328-350	1.2	3
237	Functional biohybrid materials based on halloysite, sepiolite and cellulose nanofibers for health applications. <i>Dalton Transactions</i> , 2020 , 49, 3830-3840	4.3	27
236	Responses of human cells to sepiolite interaction. <i>Applied Clay Science</i> , 2020 , 194, 105655	5.2	7
235	Nanotechnology Responses to COVID-19. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000979	10.1	75

234	Photoactive nanoarchitectures based on clays incorporating TiO and ZnO nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1140-1156	3	29
233	Interdiffusive Surfactant Procedure for the Preparation of Nanoarchitected Porous Films: Application to the Growth of Titania Thin Films on Silicon Substrates. <i>Langmuir</i> , 2019 , 35, 7169-7174	4	0
232	2018 Annual Report on Recent Patents on Nanotechnology. <i>Recent Patents on Nanotechnology</i> , 2019 , 13, 2	1.2	
231	Amelioration of PEMFC performance at high temperature by incorporation of nanofiller (sepiolite/layered double hydroxide) in Nafion membrane. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10666-10676	6.7	12
230	CLAY-BASED BIOHYBRID MATERIALS FOR BIOMEDICAL AND PHARMACEUTICAL APPLICATIONS. <i>Clays and Clay Minerals</i> , 2019 , 67, 44-58	2.1	11
229	Multicomponent bionanocomposites based on clay nanoarchitectures for electrochemical devices. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1303-1315	3	10
228	Silica-layered double hydroxide nanoarchitected materials. <i>Applied Clay Science</i> , 2019 , 171, 65-73	5.2	7
227	Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Lignin-Derived Biochar for Energy and Environmental Applications. <i>Energy Technology</i> , 2019 , 7, 277-287	3.5	18
226	Titanosilicate-sepiolite hybrid nanoarchitectures for hydrogen technologies applications. <i>Journal of Solid State Chemistry</i> , 2019 , 270, 287-294	3.3	13
225	Intercalation of metformin into montmorillonite. <i>Dalton Transactions</i> , 2018 , 47, 3185-3192	4.3	36
224	Reprint of ZnO/sepiolite heterostructured materials for solar photocatalytic degradation of pharmaceuticals in wastewater. <i>Applied Clay Science</i> , 2018 , 160, 3-8	5.2	19
223	Immobilization of Nanoparticles on Fibrous Clay Surfaces: Towards Promising Nanoplatforms for Advanced Functional Applications. <i>Chemical Record</i> , 2018 , 18, 1125-1137	6.6	28
222	Sepiolite-carbon nanocomposites doped with Pd as improving catalysts for hydrodechlorination processes. <i>Applied Clay Science</i> , 2018 , 161, 132-138	5.2	9
221	ZnO/sepiolite heterostructured materials for solar photocatalytic degradation of pharmaceuticals in wastewater. <i>Applied Clay Science</i> , 2018 , 156, 104-109	5.2	60
220	Silacrown Ethers-Clay Intercalation Materials: Application in Potentiometric Sensors for Detection of Alkali-Ions. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 608-616	5.1	6
219	Sepiolite as a New Nanocarrier for DNA Transfer into Mammalian Cells: Proof of Concept, Issues and Perspectives. <i>Chemical Record</i> , 2018 , 18, 849-857	6.6	13
218	In situ generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. <i>Nanoscale</i> , 2018 , 10, 10488-10497	7.7	11
217	Modulation of Inorganic Matrices for Functional Nanoarchitectures Fabrication: The Simultaneous Effect of Moisture and Temperature in the Preparation of Metakaolin Based Geopolymers. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1158-1167	5.1	4

216	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018 , 179, 252-261	10.3	57
215	Clay-Nanoarchitectures as Photocatalysts by Assembly of ZnO Nanoparticles and Clay Minerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 223-233	1.3	10
214	History of Organic-Inorganic Hybrid Materials: Prehistory, Art, Science, and Advanced Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1704158	15.6	167
213	The Meeting Point of Carbonaceous Materials and Clays: Toward a New Generation of Functional Composites. <i>Advanced Functional Materials</i> , 2018 , 28, 1704323	15.6	21
212	Functional Hybrid Nanopaper by Assembling Nanofibers of Cellulose and Sepiolite. <i>Advanced Functional Materials</i> , 2018 , 28, 1703048	15.6	35
211	Bionanocomposite foams based on the assembly of starch and alginate with sepiolite fibrous clay. <i>Carbohydrate Polymers</i> , 2017 , 157, 1933-1939	10.3	30
210	Nanostructured carbon-metal hybrid aerogels from bacterial cellulose. <i>RSC Advances</i> , 2017 , 7, 42203-42210	3.0	8
209	Cellular uptake pathways of sepiolite nanofibers and DNA transfection improvement. <i>Scientific Reports</i> , 2017 , 7, 5586	4.9	27
208	Clay-Organic Interfaces for Design of Functional Hybrid Materials 2017 , 1-84		4
207	Sepiolite nanoplatform for the simultaneous assembly of magnetite and zinc oxide nanoparticles as photocatalyst for improving removal of organic pollutants. <i>Journal of Hazardous Materials</i> , 2017 , 340, 281-290	12.8	39
206	Conducting macroporous carbon foams derived from microwave-generated caramel/silica gel intermediates. <i>Journal of Materials Science</i> , 2017 , 52, 11269-11281	4.3	11
205	Clay-Graphene Nanoplatelets Functional Conducting Composites. <i>Advanced Functional Materials</i> , 2016 , 26, 7394-7405	15.6	57
204	Physical interactions between DNA and sepiolite nanofibers, and potential application for DNA transfer into mammalian cells. <i>Scientific Reports</i> , 2016 , 6, 36341	4.9	25
203	Conducting Composites: Clay-Graphene Nanoplatelets Functional Conducting Composites (Adv. Funct. Mater. 41/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7539-7539	15.6	
202	Bionanocomposites based on polysaccharides and fibrous clays for packaging applications. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	19
201	Ultrasound assisted preparation of chitosan-vermiculite bionanocomposite foams for cadmium uptake. <i>Applied Clay Science</i> , 2016 , 130, 40-49	5.2	48
200	ZnO/clay nanoarchitectures: Synthesis, characterization and evaluation as photocatalysts. <i>Applied Clay Science</i> , 2016 , 131, 131-139	5.2	45
199	Smectite-chitosan-based electrodes in electrochemical detection of phenol and its derivatives. <i>Applied Clay Science</i> , 2016 , 124-125, 62-68	5.2	17

198	Layered double hydroxide/sepiolite heterostructured materials. <i>Applied Clay Science</i> , 2016 , 130, 83-92	5.2	19
197	TiO ₂ -clay based nanoarchitectures for enhanced photocatalytic hydrogen production. <i>Microporous and Mesoporous Materials</i> , 2016 , 222, 120-127	5.3	25
196	CHAPTER 1:Functional Nanocomposites Based on Fibrous Clays. <i>RSC Smart Materials</i> , 2016 , 1-53	0.6	5
195	Effective intercalation of zein into Na-montmorillonite: role of the protein components and use of the developed biointerfaces. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1772-1782	3	15
194	Organoclay hybrid materials as precursors of porous ZnO/silica-clay heterostructures for photocatalytic applications. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1971-1982	3	16
193	Clay-lipid nanohybrids: towards influenza vaccines and beyond. <i>Clay Minerals</i> , 2016 , 51, 529-538	1.3	7
192	Design, development and characterization of a nanomagnetic system based on iron oxide nanoparticles encapsulated in PLLA-nanospheres. <i>European Polymer Journal</i> , 2015 , 62, 145-154	5.2	10
191	Nanoarchitectures by Sol-Gel from Silica and Silicate Building Blocks 2015 , 443-470		6
190	Hybrid and Biohybrid Materials Based on Layered Clays 2015 , 245-297		3
189	The Maya blue nanostructured material concept applied to colouring geopolymers. <i>RSC Advances</i> , 2015 , 5, 98834-98841	3.7	28
188	Polysaccharide/fibrous clay bionanocomposites. <i>Applied Clay Science</i> , 2014 , 96, 2-8	5.2	85
187	Elastic properties of natural single nanofibres. <i>RSC Advances</i> , 2014 , 4, 11225	3.7	9
186	Pectin-coated chitosan-LDH bionanocomposite beads as potential systems for colon-targeted drug delivery. <i>International Journal of Pharmaceutics</i> , 2014 , 463, 1-9	6.5	163
185	Clay-bionanocomposites with sacran megamolecules for the selective uptake of neodymium. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1391-1399	13	28
184	Bionanocomposites containing magnetic graphite as potential systems for drug delivery. <i>International Journal of Pharmaceutics</i> , 2014 , 477, 553-63	6.5	29
183	Toward a green way for the chemical production of supported graphenes using porous solids. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2009-2017	13	24
182	Bionanocomposites based on layered silicates and cationic starch as eco-friendly adsorbents for hexavalent chromium removal. <i>Dalton Transactions</i> , 2014 , 43, 10512-20	4.3	30
181	Silicate-based multifunctional nanostructured materials with magnetite and Prussian blue: application to cesium uptake. <i>RSC Advances</i> , 2014 , 4, 35415	3.7	29

180	Recent Advances on Fibrous Clay-Based Nanocomposites. <i>Advances in Polymer Science</i> , 2014 , 39-86	1.3	19
179	Zeolite/sepiolite nanoheterostructures. <i>Journal of Nanostructure in Chemistry</i> , 2014 , 4, 1	7.6	5
178	Assembling nanotubes and nanofibres: Cooperativeness in sepiolite/carbon nanotube materials. <i>Carbon</i> , 2014 , 72, 296-303	10.4	25
177	Novel architectures in porous materials based on clays. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 307-316	2.3	34
176	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , 2014 , 6, 151-158	2.3	21
175	Progress in Bionanocomposites: From green plastics to biomedical applications. <i>Progress in Polymer Science</i> , 2013 , 38, 1391	29.6	19
174	Silica/alumina/sepiolite nanoarchitectures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7477	13	28
173	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18635-41	3.6	53
172	Magnetic and electronic properties of bimagnetic materials comprising cobalt particles within hollow silica decorated with magnetite nanoparticles. <i>Journal of Applied Physics</i> , 2013 , 114, 124304	2.5	7
171	Hierarchically structured bioactive foams based on polyvinyl alcohol-sepiolite nanocomposites. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2911-2920	7.3	23
170	Silica/clay organo-heterostructures to promote polyethylene/clay nanocomposites by in situ polymerization. <i>Applied Catalysis A: General</i> , 2013 , 453, 142-150	5.1	35
169	Fibrous Clay Mineral/Polymer Nanocomposites. <i>Developments in Clay Science</i> , 2013 , 5, 721-741		12
168	Fibrous clays based bionanocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1392-1414	29.6	179
167	Nanoarchitectures based on layered titanosilicates supported on glass fibers: application to hydrogen storage. <i>Langmuir</i> , 2013 , 29, 7449-55	4	22
166	Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. <i>Advanced Functional Materials</i> , 2013 , 23, 254-262	15.6	23
165	Silica-sepiolite nanoarchitectures. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 2897-907	1.3	25
164	Agar-based bridges as biocompatible candidates to provide guide cues in spinal cord injury repair. <i>Bio-Medical Materials and Engineering</i> , 2013 , 23, 405-21	1	3
163	Efficient and Ecological Removal of Anionic Pollutants by Cationic Starch-Clay Bionanocomposites. <i>Science of Advanced Materials</i> , 2013 , 5, 994-1005	2.3	6

162	New silica/alumina/clay heterostructures: Properties as acid catalysts. <i>Microporous and Mesoporous Materials</i> , 2012 , 147, 157-166	5.3	48
161	Bioinspired Materials Chemistry I: Organic/Inorganic Nanocomposites 2012 , 121-138		1
160	One-step patterning of hybrid xerogel materials for the fabrication of disposable solid-state light emitters. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5029-37	9.5	9
159	Chitosan-Clay Bio-Nanocomposites. <i>Green Energy and Technology</i> , 2012 , 365-391	0.6	5
158	Lipid-Based Bio-Nanohybrids for Functional Stabilisation of Influenza Vaccines. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 5186-5191	2.3	26
157	Zein/Clay Biohybrid Materials. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 5216-5224	2.3	39
156	Advanced biohybrid materials based on nanoclays for biomedical applications 2012 ,		9
155	Chapter 4: Nanoarchitectures Based on Clay Materials. <i>RSC Nanoscience and Nanotechnology</i> , 2012 , 87-111		9
154	Advanced Materials and New Applications of Sepiolite and Palygorskite. <i>Developments in Clay Science</i> , 2011 , 3, 393-452		41
153	Gelatine-based bio-nanocomposites 2011 , 209-233		4
152	Hybrid and biohybrid silicate based materials: molecular vs. block-assembling bottom-up processes. <i>Chemical Society Reviews</i> , 2011 , 40, 801-28	58.5	185
151	Multifunctional porous materials through ferrofluids. <i>Advanced Materials</i> , 2011 , 23, 5224-8	24	35
150	Gelatin renaturation and the interfacial role of fillers in bionanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4901-10	3.6	39
149	Phospholipid-sepiolite biomimetic interfaces for the immobilization of enzymes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4339-48	9.5	46
148	Biomaterials from beer manufacture waste for bone growth scaffolds. <i>Green Chemistry Letters and Reviews</i> , 2011 , 4, 229-233	4.7	12
147	Hybrid materials based on clays for environmental and biomedical applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9306		265
146	Bionanocomposites based on alginate/zein/layered double hydroxide materials as drug delivery systems. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9495		208
145	Multifunctional materials based on graphene-like/sepiolite nanocomposites. <i>Applied Clay Science</i> , 2010 , 47, 203-211	5.2	54

144	Algae-silica systems as functional hybrid materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9362-9369		20
143	Bio-organoclays based on phospholipids as immobilization hosts for biological species. <i>Langmuir</i> , 2010 , 26, 5217-25	4	82
142	Silacrown modified xerogels as functional hybrid materials for carbon composite electrodes. <i>Comptes Rendus Chimie</i> , 2010 , 13, 227-236	2.7	5
141	Advances in biomimetic and nanostructured biohybrid materials. <i>Advanced Materials</i> , 2010 , 22, 323-36	24	251
140	Sustainable p-cymene and hydrogen from limonene. <i>Applied Catalysis A: General</i> , 2010 , 387, 141-146	5.1	48
139	New titania-clay nanostructured porous materials. <i>Microporous and Mesoporous Materials</i> , 2010 , 131, 252-260	5.3	82
138	Gelatin-clay bio-nanocomposites: structural and functional properties as advanced materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 221-9	1.3	48
137	Bionanocomposites as New Carriers for Influenza Vaccines. <i>Advanced Materials</i> , 2009 , 21, 4167-4171	24	64
136	Multisensor device based on Case-Based Reasoning (CBR) for monitoring nutrient solutions in fertigation. <i>Sensors and Actuators B: Chemical</i> , 2009 , 135, 530-536	8.5	16
135	PROGRESS IN BIONANOCOMPOSITE MATERIALS. <i>Annual Review of Nano Research</i> , 2009 , 149-189		8
134	Template Synthesis of Nanostructured Carbonaceous Materials for Application in Electrochemical Devices. <i>Current Nanoscience</i> , 2009 , 5, 506-513	1.4	11
133	Bionanocomposites 2008 , 1		4
132	Preparation and properties as positive electrodes of PANI/nNi _{0.8} Co _{0.2} O ₂ nanocomposites. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3965		18
131	Titania-β-epiolite Nanocomposites Prepared by a Surfactant Templating Colloidal Route. <i>Chemistry of Materials</i> , 2008 , 20, 84-91	9.6	137
130	Poly(3,4-ethylenedioxythiophene)/clay nanocomposites. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2227		42
129	Design and preparation of bionanocomposites based on layered solids with functional and structural properties. <i>Materials Science and Technology</i> , 2008 , 24, 1100-1110	1.5	29
128	Use of biopolymers as oriented supports for the stabilization of different polymorphs of biomineralized calcium carbonate with complex shape. <i>Journal of Crystal Growth</i> , 2008 , 310, 5331-5340	1.6	26
127	Synthesis of p-cymene from limonene, a renewable feedstock. <i>Applied Catalysis B: Environmental</i> , 2008 , 81, 218-224	21.8	73

126	Polymer-Clay Nanocomposites as Precursors of Nanostructured Carbon Materials for Electrochemical Devices: Templating Effect of Clays. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1741-1750	1.3	12
125	Polymer-clay nanocomposites as precursors of nanostructured carbon materials for electrochemical devices: templating effect of clays. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1741-50	1.3	
124	Functionalized carbon-silicates from caramel-sepiolite nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 923-5	16.4	50
123	Functionalized Carbon Silicates from Caramel Sepiolite Nanocomposites. <i>Angewandte Chemie</i> , 2007 , 119, 941-943	3.6	4
122	Bionanocomposites: A New Concept of Ecological, Bioinspired, and Functional Hybrid Materials. <i>Advanced Materials</i> , 2007 , 19, 1309-1319	24	532
121	Temperature influence on the anodic growth of self-aligned Titanium dioxide nanotube arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 110-113	2.8	50
120	Influence of Anodic Conditions on Self-ordered Growth of Highly Aligned Titanium Oxide Nanopores. <i>Nanoscale Research Letters</i> , 2007 , 2, 355-363	5	36
119	Novel magnetic organic-organic nanostructured materials. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4233		20
118	A Colloidal Route for Delamination of Layered Solids: Novel Porous-Clay Nanocomposites. <i>Advanced Functional Materials</i> , 2006 , 16, 401-409	15.6	57
117	Bio-nanocomposites by assembling of gelatin and layered perovskite mixed oxides. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1602-10	1.3	14
116	Bottle-around-a-ship confinement of high loadings of Acridine Orange in new aluminophosphate crystalline materials. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1765-1771		5
115	Chapter 10.3 Clay Mineral and Organoclay Polymer Nanocomposite. <i>Developments in Clay Science</i> , 2006 , 583-621		56
114	Microfibrous Chitosan Sepiolite Nanocomposites. <i>Chemistry of Materials</i> , 2006 , 18, 1602-1610	9.6	182
113	Editorial [Trends in Bio-Hybrid Nanostructured Materials Guest Editors: Eduardo Ruiz-Hitzky and Margarita Darder]. <i>Current Nanoscience</i> , 2006 , 2, 153-153	1.4	10
112	Preparation and characterization of LiNi _{0.8} Co _{0.2} O ₂ /PANI microcomposite electrode materials under assisted ultrasonic irradiation. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 308-314	3.3	29
111	Relevance of polymer and biopolymer clay nanocomposites in electrochemical and electroanalytical applications. <i>Thin Solid Films</i> , 2006 , 495, 104-112	2.2	69
110	Encapsulation of enzymes in alumina membranes of controlled pore size. <i>Thin Solid Films</i> , 2006 , 495, 321-326	2.2	61
109	Gelation under dynamic conditions: a strategy for in vitro cell ordering. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 795-802	4.5	2

108	Bio-Nanohybrids Based on Layered Inorganic Solids: Gelatin Nanocomposites. <i>Current Nanoscience</i> , 2006 , 2, 231-241	1.4	35
107	Amino-polysiloxane hybrid materials as carbon composite electrodes for potentiometric detection of anions. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3844		23
106	Amperometric Sensors Based on Mercaptopyrindine-Montmorillonite Intercalation Compounds. <i>Chemistry of Materials</i> , 2005 , 17, 708-715	9.6	20
105	Bio-Nanocomposites Based on Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005 , 17, 1969-1977	9.6	243
104	Influence of iron in the formation of conductive polypyrrole-clay nanocomposites. <i>Applied Clay Science</i> , 2005 , 28, 183-198	5.2	56
103	Chitosan-clay nanocomposites: application as electrochemical sensors. <i>Applied Clay Science</i> , 2005 , 28, 199-208	5.2	237
102	Caramel-clay nanocomposites. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3913		62
101	Organic-Inorganic Materials: From Intercalation Chemistry to Devices 2005 , 15-49		4
100	Functional biopolymer nanocomposites based on layered solids. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3650		191
99	Magnetic behaviour of arrays of Ni nanowires by electrodeposition into self-aligned titania nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 294, e69-e72	2.8	17
98	Preparation of an Li _{0.7} Ni _{0.8} Co _{0.2} O ₂ Electrode Material From a New LiCoNi Mixed-Citrate Precursor. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2698-2705	2.3	10
97	Templated Synthesis of Carbon Nanofibers from Polyacrylonitrile Using Sepiolite. <i>Advanced Functional Materials</i> , 2004 , 14, 77-82	15.6	84
96	Microwave-Assisted Synthesis of MPS ₃ Materials (M = Mn, Cd) Using a Dewar-Ampoule Device. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 949-952	2.3	8
95	Intercalation materials from azamacrocycles and layered sulfides: electrical and electrochemical behaviour. <i>Journal of Materials Chemistry</i> , 2004 , 14, 824		5
94	Clay-Organic Interactions 2004 ,		1
93	Enthalpies of adsorption of methylene blue and crystal violet to montmorillonite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 71, 751-759	4.1	44
92	Intercalation of Poly(Ethylene Oxide) Derivatives into Layered Double Hydroxides. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 1242-1251	2.3	59
91	Ta ₂ Nb ₁₀ O ₅ (0. <i>Catalysis Today</i> , 2003 , 78, 571-579	5.3	9

90	Electrical characterization of poly(ethylene oxide)clay nanocomposites prepared by microwave irradiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 3249-3263	2.6	76
89	Functionalizing inorganic solids: towards organic-inorganic nanostructured materials for intelligent and bioinspired systems. <i>Chemical Record</i> , 2003 , 3, 88-100	6.6	123
88	Biopolymerclay Nanocomposites Based on Chitosan Intercalated in Montmorillonite. <i>Chemistry of Materials</i> , 2003 , 15, 3774-3780	9.6	557
87	Fe-containing pillared clays as catalysts for phenol hydroxylation. <i>Applied Clay Science</i> , 2003 , 22, 263-277	5.2	59
86	Silica-clay nanocomposites. <i>Chemical Communications</i> , 2003 , 2996-7	5.8	61
85	Nanostructured Hybrid Materials Formed by Sequestration of Pyridine Molecules in the Tunnels of Sepiolite. <i>Chemistry of Materials</i> , 2003 , 15, 4956-4967	9.6	76
84	Novel OrganicInorganic Mesophases: Self-Templating Synthesis and Intratubular Swelling. <i>Advanced Materials</i> , 2002 , 14, 439-443	24	61
83	Fe-rich smectites from Gafsa (Tunisia): characterization and pillaring behaviour. <i>Clay Minerals</i> , 2002 , 37, 517-529	1.3	17
82	Case-based reasoning (CBR) for multicomponent analysis using sensor arrays: application to water quality evaluation. <i>Analyst, The</i> , 2002 , 127, 1580-2	5	16
81	Hybrid materials based on lichen polysiloxane matrices: application as electrochemical sensors. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3660-3664		15
80	Microwave decomposition of a chlorinated pesticide (Lindane) supported on modified sepiolites. <i>Applied Clay Science</i> , 2002 , 22, 103-113	5.2	43
79	Hybrid materials based on vanadium pentoxide intercalation complexes. <i>Colloid and Polymer Science</i> , 2001 , 279, 990-1004	2.4	20
78	INORGANIC -ORGANIC NANOCOMPOSITE MATERIALS BASED ON MACROCYCLIC COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , 2001 , 21, 125-159	2.4	35
77	Intracrystalline alkylation of benzoate ions into layered double hydroxides. <i>Journal of Materials Chemistry</i> , 2001 , 11, 554-560		31
76	Molecular access to intracrystalline tunnels of sepiolite. <i>Journal of Materials Chemistry</i> , 2001 , 11, 86-91		265
75	Sepiolite-based materials for the photo- and thermal-stabilization of pesticides. <i>Applied Clay Science</i> , 2001 , 18, 245-254	5.2	58
74	Selective Functionalization of Mesoporous Silica. <i>Advanced Materials</i> , 2000 , 12, 430-432	24	195
73	Characterization of cobalt nanowires by means of force microscopy. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2981-2983	2	13

72	Intracrystalline reactivity of layered double hydroxides: carboxylate alkylations in dry media. <i>New Journal of Chemistry</i> , 2000 , 24, 119-121	3.6	19
71	Synthesis of pillared clays assisted by microwaves. <i>Materials Research Bulletin</i> , 1999 , 34, 641-651	5.1	26
70	Insertion of In(III) and Ga(III) into MPS3 (M = Mn, Cd) layered materials. <i>Materials Research Bulletin</i> , 1999 , 34, 673-683	5.1	7
69	Synthesis of 2,4-D ester herbicides. New routes using inorganic solid supports. <i>Green Chemistry</i> , 1999 , 1, 199-204	10	11
68	Poly(ethylene oxide)/NH ₄ ⁺ -smectite nanocomposites. <i>Applied Clay Science</i> , 1999 , 15, 119-135	5.2	102
67	Reactive nanocomposites based on pillared clays. <i>Journal of Materials Chemistry</i> , 1999 , 9, 161-167		28
66	Magnetic behavior of an array of cobalt nanowires. <i>Journal of Applied Physics</i> , 1999 , 85, 5480-5482	2.5	108
65	Hybrid Organic-Inorganic Electrode-Membranes Based on Organo-Polysiloxane/Macrocycle Systems. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 519, 211		10
64	Application of the Electrochemical Impedance Technique to Study of Pillared Clays. <i>Chemistry of Materials</i> , 1998 , 10, 3379-3385	9.6	6
63	Microwave Assisted Blending-Intercalation of Ion-Conductor Polymers into Layered Silicates. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 519, 375		5
62	Adsorption of Monovalent Organic Cations on Sepiolite: Experimental Results and Model Calculations. <i>Clays and Clay Minerals</i> , 1998 , 46, 340-348	2.1	100
61	Chitosan Based Films. Synthesis and Crystalline Properties of Nanocomposites with Amine Propyl Siloxane. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1997 , 35, 61-70	3	13
60	Characterization, pillaring and catalytic properties of a saponite from Vicálvaro, Madrid, Spain. <i>Clay Minerals</i> , 1997 , 32, 41-54	1.3	19
59	Intercalation of Methylene Blue into vanadium pentoxide gels. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 4479		11
58	MVO ₅ (M = Nb, Ta) mixed oxides: sol-gel synthesis, structural and thermal characterization and electrochemical Li ⁺ insertion. <i>Journal of Materials Chemistry</i> , 1996 , 6, 1005-1011		24
57	Proton conductivity in Al-montmorillonite pillared clays. <i>Solid State Ionics</i> , 1996 , 85, 313-317	3.3	16
56	Intercalation of Oxyethylene Compounds (Crown-Ethers and PEO) into Molybdenum Disulfide. <i>Journal of the Brazilian Chemical Society</i> , 1996 , 7, 193-197	1.5	7
55	Composite membranes based on macrocycle/polysiloxanes: preparation, characterization and electrochemical behaviour. <i>Journal of Materials Chemistry</i> , 1995 , 5, 817-825		24

54	Structural Characterization and Electrical Properties of a Novel Defect Pyrochlore. <i>Journal of Solid State Chemistry</i> , 1995 , 116, 290-295	3.3	13
53	Interlayer Adsorption of Macrocyclic Compounds (Crown-Ethers and Cryptands) in 2:1 Phyllosilicates: II. Structural Features. <i>Clay Minerals</i> , 1994 , 29, 191-203	1.3	23
52	Electrochemical characterization of composite membranes based on crown-ethers intercalated into montmorillonite. <i>Colloid and Polymer Science</i> , 1994 , 272, 712-720	2.4	19
51	New polyelectrolyte materials based on smectite polyoxyethylene intercalation compounds. <i>Acta Polymerica</i> , 1994 , 45, 59-67		55
50	Intercalation of Macrocyclic Compounds (Crown Ethers and Cryptands) into 2:1 Phyllosilicates. Stability and Calorimetric Study. <i>Langmuir</i> , 1994 , 10, 1207-1212	4	32
49	Organosilicic membranes doped with crown-ethers. <i>Journal of Materials Chemistry</i> , 1993 , 3, 687-688		13
48	Conducting Polymers Intercalated in Layered Solids. <i>Advanced Materials</i> , 1993 , 5, 334-340	24	205
47	PEO intercalation in layered chalcogenides. <i>Advanced Materials</i> , 1993 , 5, 738-741	24	70
46	Electrical Properties of Oxyethylene Intercalated Compounds. <i>NATO ASI Series Series B: Physics</i> , 1993 , 397-400		1
45	New polyoxyethylene intercalation materials in vanadium oxide xerogel. <i>Journal of Materials Chemistry</i> , 1992 , 2, 581		32
44	Poly(ethylene oxide)-silicate intercalation materials. <i>Chemistry of Materials</i> , 1992 , 4, 1395-1403	9.6	472
43	Lithium-niobium vanadium oxide and lithium-tantalum vanadium oxide, MVO ₅ , bronzes. <i>Chemistry of Materials</i> , 1992 , 4, 62-67	9.6	25
42	Rhodium complexes with nitrogen-donor ligands anchored on silicic supports. 1. Synthesis and characterization. <i>Chemistry of Materials</i> , 1992 , 4, 49-55	9.6	28
41	Adsorption of methylene blue on sepiolite gels: spectroscopic and rheological studies. <i>Clay Minerals</i> , 1992 , 27, 101-108	1.3	59
40	Mechanism of the grafting of organosilanes on mineral surfaces. IV. Phenyl derivatives of sepiolite and poly (organosiloxanes). <i>Colloid and Polymer Science</i> , 1992 , 270, 165-176	2.4	35
39	TaxNb ₁₀ V ₁₀ O ₅₅ (0 <i>Journal of Solid State Chemistry</i> , 1992 , 99, 258-266	3.3	7
38	Ionic conductivity in layer silicates controlled by intercalation of macrocyclic and polymeric oxyethylene compounds. <i>Electrochimica Acta</i> , 1992 , 37, 1573-1577	6.7	47
37	Beckmann Rearrangement Reactions on Acidic Solids. <i>Studies in Surface Science and Catalysis</i> , 1991 , 59, 539-547	1.8	9

36	51V and 93Nb high resolution NMR study of NbVO5. <i>Journal of Materials Research</i> , 1991 , 6, 393-400	2.5	16
35	Polymer-salt intercalation complexes in layer silicates. <i>Advanced Materials</i> , 1990 , 2, 545-547	24	182
34	Structural Fluorine in Sepiolite. <i>Clays and Clay Minerals</i> , 1990 , 38, 63-68	2.1	71
33	Oxygen reactivity in vanadium pentoxide: electronic structure and infrared spectroscopy studies. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 8960-8965		75
32	Inorganic solids in dry media: an efficient way for developing microwave irradiation activated organic reactions. <i>Tetrahedron Letters</i> , 1989 , 30, 945-948	2	89
31	Synthesis and characterization of the new mixed oxide NbVO5. <i>Materials Letters</i> , 1989 , 8, 132-136	3.3	22
30	Intercalation mechanism of nitrogenated bases into V2O5 xerogel. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989 , 85, 4167		24
29	Laser microprobe mass spectrometry (LMMS) of intracrystalline crown ether and cryptand complexes in layer silicates. <i>Journal of Inclusion Phenomena</i> , 1988 , 6, 107-118		14
28	Proton-sodium exchange in magadiite. Spectroscopic study (NMR, IR) of the evolution of interlayer OH groups. <i>Inorganic Chemistry</i> , 1988 , 27, 2785-2790	5.1	91
27	Intracrystalline Pinacol Rearrangement in Layer Silicates. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1988 , 161, 453-458		2
26	Arylsulphonic Resins Based on Organic/Inorganic Macro-Molecular Systems. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1988 , 161, 459-469		9
25	Genie Cristallin Dans Les Solides Organo-Mineraux. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1988 , 161, 433-452		6
24	Selectivity of the Catalytic Rearrangement of 1,2-Glycols on Acidic Solids. <i>Studies in Surface Science and Catalysis</i> , 1988 , 41, 211-219	1.8	8
23	Characterization of the interlayer water in niobyl phosphate hydrates by IR and NMR spectroscopies. <i>Inorganic Chemistry</i> , 1987 , 26, 847-850	5.1	22
22	Surface characterization of pure and chemically modified minerals by laser microprobe mass spectrometry. <i>Analytica Chimica Acta</i> , 1987 , 195, 331-336	6.6	10
21	29Si MAS-N.M.R. spectra of lamellar silicic acid H-magadiite and its trimethylsilyl derivative. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1986 , 540, 227-233	1.3	12
20	Interlayer adsorption of ammonia and pyridine in V2O5 xerogel. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986 , 82, 1597		31
19	Interlayer adsorption of macrocyclic compounds (crown-ethers and cryptands) in 2:1 phyllosilicates: I. Isotherms and kinetics. <i>Clay Minerals</i> , 1986 , 21, 1-7	1.3	14

18	Intracrystalline Complexation by Crown Ethers and Cryptands in Clay Minerals 1986 , 179-189		10
17	Photo-oxidation of water mediated by a clay-anchored Os catalyst. <i>Journal of Molecular Catalysis</i> , 1985 , 33, 83-86		13
16	Epoxide rearrangements on mineral and silica-alumina surfaces. <i>Journal of Catalysis</i> , 1985 , 92, 291-295	7.3	62
15	Redox intercalation of alkylammonium ions into VOAO ₄ .nH ₂ O (A=P, As). <i>Materials Research Bulletin</i> , 1985 , 20, 549-555	5.1	34
14	Mechanism of the grafting of organosilanes on mineral surfaces. <i>Colloid and Polymer Science</i> , 1985 , 263, 1025-1030	2.4	84
13	Laser microprobe mass analysis (LAMMA) of natural and organochlorosilane grafted sepiolite surfaces. <i>Mikrochimica Acta</i> , 1984 , 84, 117-128	5.8	8
12	Vibrational spectra of ammonium ions in crown-ether-NH ₄ ⁺ -montmorillonite complexes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984 , 80, 2225		15
11	Interaction des amides N-substitués avec des acides siliciques lamellaires. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1984 , 81, 625-628		5
10	Intracrystalline grafting on layer silicic acids. <i>Nature</i> , 1980 , 287, 28-30	50.4	163
9	Mechanism of the grafting of organosilanes on mineral surfaces. <i>Colloid and Polymer Science</i> , 1979 , 257, 178-181	2.4	28
8	Interaccion de isocianatos con sepiolita. <i>Clay Minerals</i> , 1979 , 14, 295-305	1.3	30
7	Crown ether intercalations with phyllosilicates. <i>Nature</i> , 1978 , 276, 596-597	50.4	60
6	Mechanism of the grafting of organosilanes on mineral surfaces I. Nature and role of the hydrolysis products of the methylvinylchlorosilane in the grafting of silicates in hydrochloric acid and isopropanol. <i>Colloid and Polymer Science</i> , 1978 , 256, 135-139	2.4	25
5	Organomineral Derivatives Obtained by Reacting Organochlorosilanes with the Surface of Silicates in Organic Solvents. <i>Clays and Clay Minerals</i> , 1976 , 24, 25-30	2.1	71
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