

# Eduardo Ruiz-Hitzky

## List of Publications by Year in descending order

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262  
papers

13,640  
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22146

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286  
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286  
docs citations

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times ranked

11038  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biopolymer-Clay Nanocomposites Based on Chitosan Intercalated in Montmorillonite. <i>Chemistry of Materials</i> , 2003, 15, 3774-3780.	6.7	612
2	Bionanocomposites: A New Concept of Ecological, Bioinspired, and Functional Hybrid Materials. <i>Advanced Materials</i> , 2007, 19, 1309-1319.	21.0	593
3	Poly(ethylene oxide)-silicate intercalation materials. <i>Chemistry of Materials</i> , 1992, 4, 1395-1403.	6.7	525
4	Hybrid materials based on clays for environmental and biomedical applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 9306.	6.7	296
5	Molecular access to intracrystalline tunnels of sepiolite. <i>Journal of Materials Chemistry</i> , 2001, 11, 86-91.	6.7	294
6	Advances in Biomimetic and Nanostructured Biohybrid Materials. <i>Advanced Materials</i> , 2010, 22, 323-336.	21.0	275
7	History of Organic-Inorganic Hybrid Materials: Prehistory, Art, Science, and Advanced Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1704158.	14.9	264
8	Bio-Nanocomposites Based on Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005, 17, 1969-1977.	6.7	261
9	Chitosan-clay nanocomposites: application as electrochemical sensors. <i>Applied Clay Science</i> , 2005, 28, 199-208.	5.2	261
10	Conducting Polymers Intercalated in Layered Solids. <i>Advanced Materials</i> , 1993, 5, 334-340.	21.0	235
11	Bionanocomposites based on alginate-zein/layered double hydroxide materials as drug delivery systems. <i>Journal of Materials Chemistry</i> , 2010, 20, 9495.	6.7	233
12	Functional biopolymer nanocomposites based on layered solids. <i>Journal of Materials Chemistry</i> , 2005, 15, 3650.	6.7	218
13	Polymer-salt intercalation complexes in layer silicates. <i>Advanced Materials</i> , 1990, 2, 545-547.	21.0	213
14	Fibrous clays based bionanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1392-1414.	24.7	209
15	Selective Functionalization of Mesoporous Silica. <i>Advanced Materials</i> , 2000, 12, 430-432.	21.0	208
16	Hybrid and biohybrid silicate based materials: molecular vs. block-assembling bottom-up processes. <i>Chemical Society Reviews</i> , 2011, 40, 801-828.	38.1	199
17	Microfibrous Chitosan-Sepiolite Nanocomposites. <i>Chemistry of Materials</i> , 2006, 18, 1602-1610.	6.7	196
18	Pectin-coated chitosan-LDH bionanocomposite beads as potential systems for colon-targeted drug delivery. <i>International Journal of Pharmaceutics</i> , 2014, 463, 1-9.	5.2	193

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19	Intracrystalline grafting on layer silicic acids. <i>Nature</i> , 1980, 287, 28-30.	27.8	185
20	Titania <sup>+</sup> Sepiolite Nanocomposites Prepared by a Surfactant Templating Colloidal Route. <i>Chemistry of Materials</i> , 2008, 20, 84-91.	6.7	150
21	Supported Graphene from Natural Resources: Easy Preparation and Applications. <i>Advanced Materials</i> , 2011, 23, 5250-5255.	21.0	149
22	Nanocomposite materials with controlled ion mobility. <i>Advanced Materials</i> , 1995, 7, 180-184.	21.0	130
23	Functionalizing Inorganic Solids: Towards Organic-Inorganic Nanostructured Materials for Intelligent and Bioinspired Systems. <i>Chemical Record</i> , 2003, 3, 88-100.	5.8	128
24	Nanotechnology Responses to COVID-19. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000979.	7.6	128
25	Adsorption of Monovalent Organic Cations on Sepiolite: Experimental Results and Model Calculations. <i>Clays and Clay Minerals</i> , 1998, 46, 340-348.	1.3	116
26	Magnetic behavior of an array of cobalt nanowires. <i>Journal of Applied Physics</i> , 1999, 85, 5480-5482.	2.5	116
27	Inorganic solids in "dry media" an efficient way for developing microwave irradiation activated organic reactions. <i>Tetrahedron Letters</i> , 1989, 30, 945-948.	1.4	110
28	Poly(ethylene oxide)/NH <sub>4</sub> <sup>+</sup> -smectite nanocomposites. <i>Applied Clay Science</i> , 1999, 15, 119-135.	5.2	110
29	Proton-sodium exchange in magadiite. Spectroscopic study (NMR, IR) of the evolution of interlayer OH groups. <i>Inorganic Chemistry</i> , 1988, 27, 2785-2790.	4.0	108
30	Mechanism of the grafting of organosilanes on mineral surfaces. <i>Colloid and Polymer Science</i> , 1985, 263, 1025-1030.	2.1	101
31	Polysaccharide "fibrous clay bionanocomposites. <i>Applied Clay Science</i> , 2014, 96, 2-8.	5.2	100
32	Templated Synthesis of Carbon Nanofibers from Polyacrylonitrile Using Sepiolite. <i>Advanced Functional Materials</i> , 2004, 14, 77-82.	14.9	94
33	Synthesis of p-cymene from limonene, a renewable feedstock. <i>Applied Catalysis B: Environmental</i> , 2008, 81, 218-224.	20.2	94
34	New titania-clay nanostructured porous materials. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 252-260.	4.4	94
35	Bio-organoclays Based on Phospholipids as Immobilization Hosts for Biological Species. <i>Langmuir</i> , 2010, 26, 5217-5225.	3.5	89
36	Oxygen reactivity in vanadium pentoxide: electronic structure and infrared spectroscopy studies. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8960-8965.	2.9	88

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37	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.	2.1	86
38	Structural Fluorine in Sepiolite. <i>Clays and Clay Minerals</i> , 1990, 38, 63-68.	1.3	83
39	Organomineral Derivatives Obtained by Reacting Organochlorosilanes with the Surface of Silicates in Organic Solvents. <i>Clays and Clay Minerals</i> , 1976, 24, 25-30.	1.3	81
40	PEO intercalation in layered chalcogenides. <i>Advanced Materials</i> , 1993, 5, 738-741.	21.0	81
41	Nanostructured Hybrid Materials Formed by Sequestration of Pyridine Molecules in the Tunnels of Sepiolite. <i>Chemistry of Materials</i> , 2003, 15, 4956-4967.	6.7	80
42	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018, 179, 252-261.	10.2	80
43	Relevance of polymer and biopolymer clay nanocomposites in electrochemical and electroanalytical applications. <i>Thin Solid Films</i> , 2006, 495, 104-112.	1.8	78
44	ZnO/sepiolite heterostructured materials for solar photocatalytic degradation of pharmaceuticals in wastewater. <i>Applied Clay Science</i> , 2018, 156, 104-109.	5.2	76
45	Chapter 10.3 Clay Mineral and Organoclay Polymer Nanocomposite. <i>Developments in Clay Science</i> , 2006, , 583-621.	0.5	75
46	Crown ether intercalations with phyllosilicates. <i>Nature</i> , 1978, 276, 596-597.	27.8	74
47	Caramel clay nanocomposites. <i>Journal of Materials Chemistry</i> , 2005, 15, 3913.	6.7	74
48	Epoxide rearrangements on mineral and silica-alumina surfaces. <i>Journal of Catalysis</i> , 1985, 92, 291-295.	6.2	72
49	Silica clay nanocomposites. <i>Chemical Communications</i> , 2003, , 2996-2997.	4.1	70
50	Clay-Graphene Nanoplatelets Functional Conducting Composites. <i>Advanced Functional Materials</i> , 2016, 26, 7394-7405.	14.9	70
51	Adsorption of methylene blue on sepiolite gels: spectroscopic and rheological studies. <i>Clay Minerals</i> , 1992, 27, 101-108.	0.6	69
52	Bionanocomposites as New Carriers for Influenza Vaccines. <i>Advanced Materials</i> , 2009, 21, 4167-4171.	21.0	69
53	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18635.	2.8	69
54	New polyelectrolyte materials based on smectite polyoxyethylene intercalation compounds. <i>Acta Polymerica</i> , 1994, 45, 59-67.	0.9	68

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55	Novel Organic-Inorganic Mesophases: Self-Templating Synthesis and Intratubular Swelling. <i>Advanced Materials</i> , 2002, 14, 439-443.	21.0	67
56	Fe-containing pillared clays as catalysts for phenol hydroxylation. <i>Applied Clay Science</i> , 2003, 22, 263-277.	5.2	66
57	Encapsulation of enzymes in alumina membranes of controlled pore size. <i>Thin Solid Films</i> , 2006, 495, 321-326.	1.8	66
58	A Colloidal Route for Delamination of Layered Solids: Novel Porous-Clay Nanocomposites. <i>Advanced Functional Materials</i> , 2006, 16, 401-409.	14.9	64
59	Sustainable p-cymene and hydrogen from limonene. <i>Applied Catalysis A: General</i> , 2010, 387, 141-146.	4.3	63
60	Sepiolite-based materials for the photo- and thermal-stabilization of pesticides. <i>Applied Clay Science</i> , 2001, 18, 245-254.	5.2	62
61	Intercalation of Poly(Ethylene Oxide) Derivatives into Layered Double Hydroxides. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1242-1251.	2.0	62
62	Ultrasound assisted preparation of chitosan- $\gamma$ -vermiculite bionanocomposite foams for cadmium uptake. <i>Applied Clay Science</i> , 2016, 130, 40-49.	5.2	60
63	Influence of iron in the formation of conductive polypyrrole-clay nanocomposites. <i>Applied Clay Science</i> , 2005, 28, 183-198.	5.2	59
64	Multifunctional materials based on graphene-like/sepiolite nanocomposites. <i>Applied Clay Science</i> , 2010, 47, 203-211.	5.2	59
65	Ionic conductivity in layer silicates controlled by intercalation of macrocyclic and polymeric oxyethylene compounds. <i>Electrochimica Acta</i> , 1992, 37, 1573-1577.	5.2	58
66	Functionalized Carbon- $\gamma$ -Silicates from Caramel- $\gamma$ -Sepiolite Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 923-925.	13.8	58
67	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.	2.3	58
68	Progress in Bionanocomposite and Bioinspired Foams. <i>Advanced Materials</i> , 2011, 23, 5262-5267.	21.0	58
69	New silica/alumina- $\gamma$ -clay heterostructures: Properties as acid catalysts. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 157-166.	4.4	58
70	ZnO/clay nanoarchitectures: Synthesis, characterization and evaluation as photocatalysts. <i>Applied Clay Science</i> , 2016, 131, 131-139.	5.2	58
71	Advanced Materials and New Applications of Sepiolite and Palygorskite. <i>Developments in Clay Science</i> , 2011, 3, 393-452.	0.5	57
72	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.	12.4	57

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73	Enthalpies of adsorption of methylene blue and crystal violet to montmorillonite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 71, 751-759.	3.6	54
74	Gelatin-Clay Bio-Nanocomposites: Structural and Functional Properties as Advanced Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 221-229.	0.9	52
75	Phospholipid-Sepiolite Biomimetic Interfaces for the Immobilization of Enzymes. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4339-4348.	8.0	51
76	Microwave decomposition of a chlorinated pesticide (Lindane) supported on modified sepiolites. <i>Applied Clay Science</i> , 2002, 22, 103-113.	5.2	50
77	Photoactive nanoarchitectures based on clays incorporating TiO <sub>2</sub> and ZnO nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1140-1156.	2.8	50
78	Functional Hybrid Nanopaper by Assembling Nanofibers of Cellulose and Sepiolite. <i>Advanced Functional Materials</i> , 2018, 28, 1703048.	14.9	49
79	Zein-Fibrous Clays Biohybrid Materials. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5216-5224.	2.0	45
80	Functional biohybrid materials based on halloysite, sepiolite and cellulose nanofibers for health applications. <i>Dalton Transactions</i> , 2020, 49, 3830-3840.	3.3	45
81	Redox intercalation of alkylammonium ions into VOAO <sub>4</sub> .nH <sub>2</sub> O (A=P, As). <i>Materials Research Bulletin</i> , 1985, 20, 549-555.	5.2	44
82	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.	2.1	44
83	Poly(3,4-ethylenedioxythiophene)-clay nanocomposites. <i>Journal of Materials Chemistry</i> , 2008, 18, 2227.	6.7	44
84	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.	3.2	44
85	Gelatin renaturation and the interfacial role of fillers in bionanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4901-4910.	2.8	43
86	Intercalation of metformin into montmorillonite. <i>Dalton Transactions</i> , 2018, 47, 3185-3192.	3.3	43
87	Multifunctional Porous Materials Through Ferrofluids. <i>Advanced Materials</i> , 2011, 23, 5224-5228.	21.0	42
88	Immobilization of Nanoparticles on Fibrous Clay Surfaces: Towards Promising Nanoplatforms for Advanced Functional Applications. <i>Chemical Record</i> , 2018, 18, 1125-1137.	5.8	42
89	Pod-inspired MXene/porous carbon microspheres with ultrahigh adsorption capacity towards crystal violet. <i>Chemical Engineering Journal</i> , 2021, 426, 130776.	12.7	42
90	Interlayer adsorption of ammonia and pyridine in V <sub>2</sub> O <sub>5</sub> xerogel. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986, 82, 1597.	1.0	41

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91	INORGANIC -ORGANIC NANOCOMPOSITE MATERIALS BASED ON MACROCYCLIC COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , 2001, 21, 125-159.	4.1	40
92	Bionanocomposite foams based on the assembly of starch and alginate with sepiolite fibrous clay. <i>Carbohydrate Polymers</i> , 2017, 157, 1933-1939.	10.2	40
93	New polyoxyethylene intercalation materials in vanadium oxide xerogel. <i>Journal of Materials Chemistry</i> , 1992, 2, 581.	6.7	39
94	Silicate-based multifunctional nanostructured materials with magnetite and Prussian blue: application to cesium uptake. <i>RSC Advances</i> , 2014, 4, 35415.	3.6	39
95	Influence of Anodic Conditions on Self-ordered Growth of Highly Aligned Titanium Oxide Nanopores. <i>Nanoscale Research Letters</i> , 2007, 2, 355-363.	5.7	38
96	Intercalation of Macrocyclic Compounds (Crown Ethers and Cryptands) into 2:1 Phyllosilicates. Stability and Calorimetric Study. <i>Langmuir</i> , 1994, 10, 1207-1212.	3.5	37
97	Silica/clay organo-heterostructures to promote polyethylene-clay nanocomposites by in situ polymerization. <i>Applied Catalysis A: General</i> , 2013, 453, 142-150.	4.3	37
98	Novel architectures in porous materials based on clays. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 307-316.	2.4	37
99	Bionanocomposites containing magnetic graphite as potential systems for drug delivery. <i>International Journal of Pharmaceutics</i> , 2014, 477, 553-563.	5.2	36
100	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	36
101	Bio-Nanohybrids Based on Layered Inorganic Solids: Gelatin Nanocomposites. <i>Current Nanoscience</i> , 2006, 2, 231-241.	1.2	36
102	Interaccion de isocianatos con sepiolita. <i>Clay Minerals</i> , 1979, 14, 295-305.	0.6	35
103	Structural Characterization and Electrical Properties of a Novel Defect Pyrochlore. <i>Journal of Solid State Chemistry</i> , 1995, 116, 290-295.	2.9	35
104	Bionanocomposites based on layered silicates and cationic starch as eco-friendly adsorbents for hexavalent chromium removal. <i>Dalton Transactions</i> , 2014, 43, 10512-10520.	3.3	35
105	Cellular uptake pathways of sepiolite nanofibers and DNA transfection improvement. <i>Scientific Reports</i> , 2017, 7, 5586.	3.3	35
106	Mechanism of the grafting of organosilanes on mineral surfaces. <i>Colloid and Polymer Science</i> , 1979, 257, 178-181.	2.1	34
107	Intracrystalline alkylation of benzoate ions into layered double hydroxides. <i>Journal of Materials Chemistry</i> , 2001, 11, 554-560.	6.7	34
108	The Maya blue nanostructured material concept applied to colouring geopolymers. <i>RSC Advances</i> , 2015, 5, 98834-98841.	3.6	34

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109	Rhodium complexes with nitrogen-donor ligands anchored on silicic supports. 1. Synthesis and characterization. <i>Chemistry of Materials</i> , 1992, 4, 49-55.	6.7	33
110	Silica-alumina/sepiolite nanoarchitectures. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7477.	10.3	33
111	Clay-bionanocomposites with sacran megamolecules for the selective uptake of neodymium. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1391-1399.	10.3	33
112	Physical interactions between DNA and sepiolite nanofibers, and potential application for DNA transfer into mammalian cells. <i>Scientific Reports</i> , 2016, 6, 36341.	3.3	33
113	Characterization of the interlayer water in niobyl phosphate hydrates by IR and NMR spectroscopies. <i>Inorganic Chemistry</i> , 1987, 26, 847-850.	4.0	32
114	Reactive nanocomposites based on pillared clays. <i>Journal of Materials Chemistry</i> , 1999, 9, 161-167.	6.7	32
115	Design and preparation of bionanocomposites based on layered solids with functional and structural properties. <i>Materials Science and Technology</i> , 2008, 24, 1100-1110.	1.6	32
116	Assembling nanotubes and nanofibres: Cooperativeness in sepiolite-carbon nanotube materials. <i>Carbon</i> , 2014, 72, 296-303.	10.3	32
117	The Meeting Point of Carbonaceous Materials and Clays: Toward a New Generation of Functional Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1704323.	14.9	32
118	Intercalation mechanism of nitrogenated bases into V <sub>2</sub> O <sub>5</sub> xerogel. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 4167.	1.0	31
119	Interlayer Adsorption of Macrocyclic Compounds (Crown-Ethers and Cryptands) in 2:1 Phyllosilicates: II. Structural Features. <i>Clay Minerals</i> , 1994, 29, 191-203.	0.6	31
120	Preparation and characterization of LiNi <sub>0.8</sub> Co <sub>0.2</sub> O <sub>2</sub> /PANI microcomposite electrode materials under assisted ultrasonic irradiation. <i>Journal of Solid State Chemistry</i> , 2006, 179, 308-314.	2.9	31
121	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.	10.3	31
122	Graphene Derivatives in Biopolymer-Based Composites for Food Packaging Applications. <i>Nanomaterials</i> , 2020, 10, 2077.	4.1	31
123	Hydrophobic composite foams based on nanocellulose-sepiolite for oil sorption applications. <i>Journal of Hazardous Materials</i> , 2021, 417, 126068.	12.4	31
124	Lithium-niobium vanadium oxide and lithium-tantalum vanadium oxide, MVO <sub>5</sub> , bronzes. <i>Chemistry of Materials</i> , 1992, 4, 62-67.	6.7	30
125	Lipid-Based Bio-Nanohybrids for Functional Stabilisation of Influenza Vaccines. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5186-5191.	2.0	30
126	Silica-Sepiolite Nanoarchitectures. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2897-2907.	0.9	30



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127	TiO <sub>2</sub> -clay based nanoarchitectures for enhanced photocatalytic hydrogen production. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 120-127.	4.4	30
128	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.	2.1	29
129	Bionanocomposites based on polysaccharides and fibrous clays for packaging applications. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	29
130	Layered double hydroxide/sepiolite heterostructured materials. <i>Applied Clay Science</i> , 2016, 130, 83-92.	5.2	29
131	MXene-Enhanced Chitin Composite Sponges with Antibacterial and Hemostatic Activity for Wound Healing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102367.	7.6	29
132	Synthesis of pillared clays assisted by microwaves. <i>Materials Research Bulletin</i> , 1999, 34, 641-651.	5.2	28
133	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.	1.5	27
134	Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. <i>Advanced Functional Materials</i> , 2013, 23, 254-262.	14.9	27
135	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , 2014, 6, 151-158.	0.7	27
136	Amino-polysiloxane hybrid materials as carbon composite electrodes for potentiometric detection of anions. <i>Journal of Materials Chemistry</i> , 2005, 15, 3844.	6.7	26
137	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.	7.1	26
138	Chitosan and pectin core-shell beads encapsulating metformin-clay intercalation compounds for controlled delivery. <i>New Journal of Chemistry</i> , 2020, 44, 10102-10110.	2.8	26
139	Composite membranes based on macrocycle/polysiloxanes: preparation, characterization and electrochemical behaviour. <i>Journal of Materials Chemistry</i> , 1995, 5, 817-825.	6.7	25
140	Algae-silica systems as functional hybrid materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 9362-9369.	6.7	25
141	Hierarchically structured bioactive foams based on polyvinyl alcohol-sepiolite nanocomposites. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2911.	5.8	25
142	Recent Advances on Fibrous Clay-Based Nanocomposites. <i>Advances in Polymer Science</i> , 2014, , 39-86.	0.8	25
143	Synthesis and characterization of the new mixed oxide NbVO <sub>5</sub> . <i>Materials Letters</i> , 1989, 8, 132-136.	2.6	24
144	MVO <sub>5</sub> (M = Nb, Ta) mixed oxides: sol-gel synthesis, structural and thermal characterization and electrochemical Li <sup>+</sup> -insertion. <i>Journal of Materials Chemistry</i> , 1996, 6, 1005-1011.	6.7	24

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145	Hybrid materials based on vanadium pentoxide intercalation complexes. <i>Colloid and Polymer Science</i> , 2001, 279, 990-1004.	2.1	24
146	Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Ligninâ€Derived Biochar for Energy and Environmental Applications. <i>Energy Technology</i> , 2019, 7, 277-287.	3.8	24
147	Electrochemical characterization of composite membranes based on crown-ethers intercalated into montmorillonite. <i>Colloid and Polymer Science</i> , 1994, 272, 712-720.	2.1	23
148	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.	2.8	23
149	Nanoarchitectures Based on Layered Titanosilicates Supported on Glass Fibers: Application to Hydrogen Storage. <i>Langmuir</i> , 2013, 29, 7449-7455.	3.5	22
150	Organoclay hybrid materials as precursors of porous ZnO/silica-clay heterostructures for photocatalytic applications. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1971-1982.	2.8	22
151	Characterization, pillaring and catalytic properties of a saponite from VicÃ¼lvaro, Madrid, Spain. <i>Clay Minerals</i> , 1997, 32, 41-54.	0.6	21
152	Intracrystalline reactivity of layered double hydroxides: carboxylate alkylations in dry media. <i>New Journal of Chemistry</i> , 2000, 24, 119-121.	2.8	21
153	Progress in Bionanocomposites: From green plastics to biomedical applications. <i>Progress in Polymer Science</i> , 2013, 38, 1391.	24.7	21
154	Smectite-chitosan-based electrodes in electrochemical detection of phenol and its derivatives. <i>Applied Clay Science</i> , 2016, 124-125, 62-68.	5.2	21
155	Proton conductivity in Al-montmorillonite pillared clays. <i>Solid State Ionics</i> , 1996, 85, 313-317.	2.7	20
156	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.	2.3	20
157	Amperometric Sensors Based on MercaptopyridineâˆMontmorillonite Intercalation Compounds. <i>Chemistry of Materials</i> , 2005, 17, 708-715.	6.7	20
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