

Nobuo Iyi

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123
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86
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130
ext. papers

8,284
ext. citations

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L-index

#	Paper	IF	Citations
123	Synthesis, anion exchange, and delamination of Co-Al layered double hydroxide: assembly of the exfoliated nanosheet/polyanion composite films and magneto-optical studies. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4872-80	16.4	1025
122	Positively Charged Nanosheets Derived via Total Delamination of Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005 , 17, 4386-4391	9.6	444
121	Exfoliating layered double hydroxides in formamide: a method to obtain positively charged nanosheets. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3809		430
120	Synthesis and exfoliation of Co ²⁺ -Fe ³⁺ layered double hydroxides: an innovative topochemical approach. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5257-63	16.4	316
119	Topochemical Synthesis, Anion Exchange, and Exfoliation of Co/Ni Layered Double Hydroxides: A Route to Positively Charged Co/Ni Hydroxide Nanosheets with Tunable Composition. <i>Chemistry of Materials</i> , 2010 , 22, 371-378	9.6	280
118	Deintercalation of Carbonate Ions from a Hydrotalcite-Like Compound: Enhanced Decarbonation Using Acid Salt Mixed Solution. <i>Chemistry of Materials</i> , 2004 , 16, 2926-2932	9.6	253
117	General synthesis and delamination of highly crystalline transition-metal-bearing layered double hydroxides. <i>Langmuir</i> , 2007 , 23, 861-7	4	215
116	General synthesis and structural evolution of a layered family of Ln ₈ (OH) ₂₀ Cl ₄ × nH ₂ O (Ln = Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, and Y). <i>Journal of the American Chemical Society</i> , 2008 , 130, 16344-50	16.4	212
115	Topochemical synthesis of monometallic (Co ²⁺ -Co ³⁺) layered double hydroxide and its exfoliation into positively charged Co(OH) ₂ nanosheets. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 86-9	16.4	191
114	Hollow nanoshell of layered double hydroxide. <i>Chemical Communications</i> , 2006 , 3125-7	5.8	152
113	New layered rare-earth hydroxides with anion-exchange properties. <i>Chemistry - A European Journal</i> , 2008 , 14, 9255-60	4.8	149
112	Increased optical damage resistance in Sc ₂ O ₃ -doped LiNbO ₃ . <i>Applied Physics Letters</i> , 1992 , 61, 2156-2158	3.4	147
111	Luminescence properties of rhodamine 6G intercalated in surfactant/clay hybrid thin solid films. <i>Langmuir</i> , 2004 , 20, 4715-9	4	134
110	A Novel Synthetic Route to Layered Double Hydroxides Using Hexamethylenetetramine. <i>Chemistry Letters</i> , 2004 , 33, 1122-1123	1.7	120
109	Orientation of an Organic Anion and Second-Staging Structure in Layered Double-Hydroxide Intercalates. <i>Chemistry of Materials</i> , 2002 , 14, 583-589	9.6	120
108	Water-swallowable MgAl-LDH (layered double hydroxide) hybrids: synthesis, characterization, and film preparation. <i>Langmuir</i> , 2008 , 24, 5591-8	4	116
107	Factors affecting the crystal size of the MgAl-LDH (layered double hydroxide) prepared by using ammonia-releasing reagents. <i>Applied Clay Science</i> , 2007 , 37, 23-31	5.2	110

106	Adsorption of dodecyl- and octadecyltrimethylammonium ions on a smectite and synthetic micas. <i>Applied Clay Science</i> , 2001 , 19, 5-10	5.2	110
105	Synthesis and properties of well-crystallized layered rare-earth hydroxide nitrates from homogeneous precipitation. <i>Inorganic Chemistry</i> , 2009 , 48, 6724-30	5.1	95
104	Aggregated Structures of Rhodamine 6G Intercalated in a Fluor-Taeniolite Thin Film. <i>Langmuir</i> , 2002 , 18, 6578-6583	4	95
103	Hexagonal-Structured Polysiloxane Material Prepared by Sol-Gel Reaction of Aminoalkyltrialkoxysilane without Using Surfactants. <i>Chemistry of Materials</i> , 2004 , 16, 3417-3423	9.6	94
102	Preparation of highly oriented organic-LDH hybrid films by combining the decarbonation, anion-exchange, and delamination processes. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1608-1616		90
101	Synthesis and characterization of water-swellaable LDH (layered double hydroxide) hybrids containing sulfonate-type intercalant. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8085		79
100	Orientation and aggregation of cationic laser dyes in a fluoromica: polarized spectrometry studies. <i>Applied Clay Science</i> , 2002 , 22, 125-136	5.2	76
99	Single Crystal Preparation of Ba ₂ YCu ₃ O _x from Nonstoichiometric Melts. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L851-L853	1.4	76
98	Decarbonation of MgAl-LDHs (layered double hydroxides) using acetate-buffer/NaCl mixed solution. <i>Journal of Colloid and Interface Science</i> , 2008 , 322, 237-45	9.3	74
97	Oriented films of layered rare-earth hydroxide crystallites self-assembled at the hexane/water interface. <i>Chemical Communications</i> , 2008 , 4897-9	5.8	68
96	Structural refinement and thermal expansion of hexaborides. <i>Journal of Alloys and Compounds</i> , 2004 , 366, L6-L8	5.7	68
95	Molecular arrangement of rhodamine 6G cations in the films of layered silicates: the effect of the layer charge. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4680-4685	3.6	66
94	Synthesis of ion-exchangeable layered polysiloxane by sol-gel reaction of aminoalkyltrialkoxysilane: a new preparation method for layered polysiloxane materials. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2058-2060		66
93	Spectral Properties, Formation of Dye Molecular Aggregates, and Reactions in Rhodamine 6G/Layered Silicate Dispersions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 4470-4477	3.4	65
92	High visible-light photocatalytic activity of nitrogen-doped titania prepared from layered titania/isostearate nanocomposite. <i>Catalysis Today</i> , 2007 , 120, 226-232	5.3	63
91	Molecular orientation of rhodamine dyes on surfaces of layered silicates. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4608-15	3.4	62
90	Crystal Structure of the Superconductor Ba _{1.8} Nd _{1.2} Cu ₃ O _{7-y} . <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L1616-L1619	1.4	61
89	Synthesis of rodlike polysiloxane with hexagonal phase by sol-gel reaction of organotrialkoxysilane monomer containing two amino groups. <i>Polymer</i> , 2005 , 46, 1828-1833	3.9	59

- 88 Adsorption and photodegradation properties of anionic dyes by layered double hydroxides. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 1037-1045 3.9 58
- 87 Molecular aggregation of rhodamine dyes in dispersions of layered silicates: influence of dye molecular structure and silicate properties. *Journal of Physical Chemistry B*, **2006**, 110, 2180-6 3.4 58
- 86 Dynamic breathing of CO₂ by hydrotalcite. *Journal of the American Chemical Society*, **2013**, 135, 18040-3 16.4 57
- 85 Deintercalation of carbonate ions from carbonate-type layered double hydroxides (LDHs) using acid/alcohol mixed solutions. *Applied Clay Science*, **2011**, 54, 132-137 5.2 57
- 84 The Oxygen-Deficient Perovskite Solid Solution Nd_{1+x}Ba_{2-x}Cu₃O_y and Its Superconductivity. *Japanese Journal of Applied Physics*, **1987**, 26, L2076-L2079 1.4 55
- 83 Raman Scattering in Single Crystal Ba₂YCu₃O_y. *Japanese Journal of Applied Physics*, **1987**, 26, L1404-L1406 1.4 51
- 82 Rapid exchange between atmospheric CO₂ and carbonate anion intercalated within magnesium rich layered double hydroxide. *ACS Applied Materials & Interfaces*, **2014**, 6, 18352-9 9.5 49
- 81 Spectral properties of rhodamine 3B adsorbed on the surface of montmorillonites with variable layer charge. *Langmuir*, **2007**, 23, 1851-9 4 49
- 80 Aggregation and decomposition of a pseudocyanine dye in dispersions of layered silicates. *Journal of Colloid and Interface Science*, **2002**, 247, 494-503 9.3 47
- 79 Naked-eye discrimination of methanol from ethanol using composite film of oxoporphyrinogen and layered double hydroxide. *ACS Applied Materials & Interfaces*, **2013**, 5, 5927-30 9.5 44
- 78 Effects of Anion Species on Deintercalation of Carbonate Ions from Hydrotalcite-like Compounds. *Chemistry Letters*, **2005**, 34, 932-933 1.7 44
- 77 Intercalation of Rhodamine 6G and Oxazine 4 into Oriented Clay Films and Their Alignment. *Journal of Materials Research*, **2002**, 17, 1035-1040 2.5 43
- 76 Deintercalation of carbonate ions and anion exchange of an Al-rich MgAl-LDH (layered double hydroxide). *Applied Clay Science*, **2008**, 42, 246-251 5.2 42
- 75 Synthesis of Rhodamine 6G/Cationic Surfactant/Clay Hybrid Materials and Its Luminescent Characterization. *Chemistry Letters*, **2003**, 32, 550-551 1.7 42
- 74 Interplay of Charge Density and Relative Humidity on the Structure of Nitrate Layered Double Hydroxides. *Journal of Physical Chemistry C*, **2010**, 114, 18153-18158 3.8 41
- 73 Visible spectroscopy of cationic dyes in dispersions with reduced-charge montmorillonites. *Clays and Clay Minerals*, **2002**, 50, 446-454 2.1 38
- 72 Preparation of a Novel Luminous Heterogeneous System: Rhodamine/Coumarin/Phyllosilicate Hybrid and Blue Shift in Fluorescence Emission. *Chemistry of Materials*, **2008**, 20, 2994-3002 9.6 36
- 71 Spectral and Structural Characteristics of Oxazine 4/Hexadecyltrimethylammonium Montmorillonite Films. *Chemistry of Materials*, **2006**, 18, 2618-2624 9.6 36

70	Effect of layer charge density on orientation and aggregation of a cationic laser dye incorporated in the interlayer space of montmorillonites. <i>Journal of Colloid and Interface Science</i> , 2004 , 269, 22-5	9.3	34
69	Simple Calculation of SiC Polytype Contents from Powder X-Ray Diffraction Peaks. <i>Journal of the Ceramic Society of Japan</i> , 1993 , 101, 1313-1314		34
68	Accordion-like swelling of layered perovskite crystals via massive permeation of aqueous solutions into 2D oxide galleries. <i>Chemical Communications</i> , 2015 , 51, 17068-71	5.8	33
67	Mesogenic Unsymmetric dimers containing cholesteryl ester and tolane moieties. <i>Liquid Crystals</i> , 2003 , 30, 1079-1087	2.3	33
66	One-pot synthesis of organophilic layered double hydroxides (LDHs) containing aliphatic carboxylates: extended "homogeneous precipitation" method. <i>Journal of Colloid and Interface Science</i> , 2009 , 340, 67-73	9.3	32
65	Sol-gel synthesis of ladder polysilsesquioxanes forming chiral conformations and hexagonal stacking structures. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7106		32
64	Visible orange photoluminescence in a barium titanosilicate BaTiSi ₂ O ₇ . <i>Applied Physics Letters</i> , 2006 , 88, 151903	3.4	32
63	Intercalation Characteristics of Rhodamine 6G in Fluor-Taeniolite: Orientation in the Gallery. <i>Clays and Clay Minerals</i> , 1997 , 45, 77-84	2.1	31
62	Aggregation and stability of 1,1'-diethyl-4,4'-cyanine dye on the surface of layered silicates with different charge densities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 207, 207-214	5.1	31
61	Crystal Structure of the New Magnetoplumbite-Related Compound in the System SrO-Al ₂ O ₃ -MgO. <i>Journal of Solid State Chemistry</i> , 1996 , 122, 46-52	3.3	31
60	Preparation of a sulfo-group-containing rod-like polysilsesquioxane with a hexagonally stacked structure and its proton conductivity. <i>Chemistry - A European Journal</i> , 2014 , 20, 9394-9	4.8	30
59	Preparation of Integrated Coumarin/Cyanine Systems within an Interlayer of Phyllosilicate and Fluorescence Resonance Energy Transfer. <i>Chemistry of Materials</i> , 2009 , 21, 1179-1181	9.6	30
58	Electron Diffraction and Microscope Study of Ba-Nd-Cu-O Superconducting Oxides and Related Compounds. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L1693-L1696	1.4	30
57	Preparation of carboxylate group-containing rod-like polysilsesquioxane with hexagonally stacked structure by sol-gel reaction of 2-cyanoethyltriethoxysilane. <i>Polymer</i> , 2012 , 53, 6021-6026	3.9	28
56	Topochemical Synthesis of Monometallic (Co ²⁺ /Ni ³⁺) Layered Double Hydroxide and Its Exfoliation into Positively Charged Co(OH) ₂ Nanosheets. <i>Angewandte Chemie</i> , 2008 , 120, 92-95	3.6	28
55	Sol-gel synthesis of rodlike polysilsesquioxanes forming regular higher-ordered nanostructure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007 , 222, 656-662	1	28
54	Synthesis of organic/inorganic hybrid hydrogels using rodlike polysiloxane having acrylamido groups as a new cross-linking agent. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1746-1750		28
53	Preparation of Hybrid Organic/Inorganic Luminescent Thin Solid Films with Highly Concentrated Laser-dye Cations. <i>Chemistry Letters</i> , 2005 , 34, 1490-1491	1.7	28

52	The Al-Rich Part of the System CaO-Al ₂ O ₃ -MgO. <i>Journal of Solid State Chemistry</i> , 1995 , 120, 364-371	3.3	28
51	Resonance Energy Transfer between Rhodamine Molecules Adsorbed on Layered Silicate Particles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1246-1252	3.8	26
50	One-step Conversion of CO ₃ LDH (Layered Double Hydroxide) into Anion-exchangeable LDHs Using an Acetate-buffer/Salt Method. <i>Chemistry Letters</i> , 2010 , 39, 591-593	1.7	23
49	Photoactive oriented films of layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4429-34	3.6	22
48	Preparation of Ionic Silsesquioxanes with Regular Structures and Their Hybridization. <i>International Journal of Polymer Science</i> , 2012 , 2012, 1-14	2.4	21
47	Preparation of higher-ordered inorganic-organic nanocomposite composed of rodlike cationic polysiloxane and polyacrylate. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1572-1575		21
46	Novel chiral dimesogenic bidentate ligands and their Cu(II) and Pd(II) metal complexes. <i>Liquid Crystals</i> , 2003 , 30, 681-690	2.3	21
45	Polytypes, Grain Growth, and Fracture Toughness of Metal Boride Particulate SiC Composites. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1223-1229	3.8	21
44	Efficient decarbonation of carbonate-type layered double hydroxide (CO ₃ LDH) by ammonium salts in alcohol medium. <i>Applied Clay Science</i> , 2012 , 65-66, 121-127	5.2	20
43	Geomaterials: their application to environmental remediation. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 064705	7.1	20
42	Anomalous phase transition and ionic conductivity of AgI nanowire grown using porous alumina template. <i>Journal of Applied Physics</i> , 2007 , 102, 124308	2.5	20
41	Hydrogen-bond-driven homogeneous intercalation for rapid, reversible, and ultra-precise actuation of layered clay nanosheets. <i>Chemical Communications</i> , 2013 , 49, 3631-3	5.8	19
40	Fluorescence resonance energy transfer and arrangements of fluorophores in integrated coumarin/cyanine systems within solid-state two-dimensional nanospace. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 225, 125-134	4.7	19
39	Isomerization of cationic azobenzene derivatives in dispersions and films of layered silicates. <i>Journal of Colloid and Interface Science</i> , 2003 , 262, 282-9	9.3	19
38	Spectral properties and structure of the J-aggregates of pseudoisocyanine dye in layered silicate films. <i>Journal of Colloid and Interface Science</i> , 2008 , 326, 426-32	9.3	18
37	Bulk Functional Materials Design Using Oxide Nanosheets as Building Blocks: A New Upconversion Material Fabricated by Flocculation of Ca ₂ Nb ₃ O ₁₀ Nanosheets with Rare-Earth Ions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1729-1738	3.8	16
36	Luminous Change of Rhodamine 3B Incorporated into Titanate Nanosheet/Decyltrimethylammonium Hybrids under Humid Atmosphere. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 562-568	5.1	16
35	Molecular orientation of methylene blue intercalated in layer-charge-controlled montmorillonites. <i>Journal of Materials Research</i> , 2003 , 18, 2639-2643	2.5	16

34	Swelling and gel/sol formation of perchlorate-type layered double hydroxides in concentrated aqueous solutions of amino acid-related zwitterionic compounds. <i>Langmuir</i> , 2013 , 29, 2562-71	4	15
33	Effect of KBr on the FTIR Spectra of NO ₃ ⁻ LDHs (Layered Double Hydroxides). <i>Chemistry Letters</i> , 2009 , 38, 808-809	1.7	15
32	Sol-Gel Synthesis of Water-Soluble Polysilsesquioxanes with Regular Structures. <i>Kobunshi Ronbunshu</i> , 2010 , 67, 280-287	0	15
31	Synthesis of rodlike polysiloxane containing polyol moieties derived from glucose with regularly controlled higher-ordered structure. <i>Polymer</i> , 2005 , 46, 8905-8907	3.9	15
30	Induced emission cross section of a possible laser line in Nd:Y ₂ O ₃ ceramics at 1.095 μ m. <i>Journal of Applied Physics</i> , 2007 , 101, 043112	2.5	14
29	Phase-Stability and Photoluminescence of BaTi(Si, Ge) ₃ O ₉ . <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 313-317		14
28	Multinuclear solid-state NMR spectroscopy of a paramagnetic layered double hydroxide. <i>RSC Advances</i> , 2013 , 3, 19857	3.7	13
27	Sc ₂ O ₃ -doped LiNbO ₃ grown by the float zone method. <i>Journal of Crystal Growth</i> , 1992 , 121, 522-526	1.6	13
26	Evaluation of sintering stresses of an Al ₂ O ₃ powder with a self-loading apparatus. <i>Ceramics International</i> , 2009 , 35, 3185-3194	5.1	12
25	Influence of magnesia on sintering stress of alumina. <i>Ceramics International</i> , 2010 , 36, 1143-1146	5.1	12
24	Rosette-like Layered Double Hydroxides: Adsorbent Materials for the Removal of Anionic Pollutants from Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27954-27963	9.5	11
23	Highly fluorescent colloids based on rhodamine 6G, modified layered silicate, and organic solvent. <i>Journal of Colloid and Interface Science</i> , 2012 , 388, 15-20	9.3	11
22	Organometallic chiral liquid crystals: bis{4-[[cholest-5-en-3-yl]oxy]phenylethynyl}mercury complexes. <i>Liquid Crystals</i> , 2002 , 29, 1393-1399	2.3	11
21	Localized Electrons Around Cu Atoms of Superconductor, Tetragonal YBa ₂ Cu ₃ -xO ₇ -y. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L1365-L1367	1.4	11
20	Optical properties of molecular aggregates of oxazine dyes in dispersions of clay minerals. <i>Colloid and Polymer Science</i> , 2009 , 287, 157-165	2.4	9
19	Structure of cationic dyes assemblies intercalated in the films of montmorillonite. <i>Thin Solid Films</i> , 2008 , 517, 793-799	2.2	9
18	Preparation of Nitrogen-doped Anatase Titania by Treatment of Layered Titania/Isostearate Nanocomposite with Aqueous Ammonia. <i>Chemistry Letters</i> , 2004 , 33, 1508-1509	1.7	9
17	Synthesis of water-soluble silicon oxide material by sol-gel reaction in tetraalkoxysilane-aminoalkyltrialkoxysilane binary system. <i>Journal of Materials Research</i> , 2005 , 20, 2199-2204	2.5	9

16	Structural changes of layered alkylsiloxanes during the reversible melting-solidification process. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19146-57	3.6	7
15	Fine Control of Nitrogen Content in N-doped Titania Photocatalysts Prepared from Layered Titania/Isostearate Nanocomposites for High Visible-Light Photocatalytic Activity. <i>Topics in Catalysis</i> , 2009 , 52, 1584-1591	2.3	7
14	The Aluminum-Rich Part of the System BaO-Al ₂ O ₃ -MgO. <i>Journal of Solid State Chemistry</i> , 1998 , 136, 258-262	3.3	7
13	Preparation of a Clay Pillared with Rodlike Cationic Polysiloxane. <i>Chemistry Letters</i> , 2004 , 33, 1486-1487	1.7	7
12	Annealing Behavior of Twin Domains in YBa ₂ Cu ₃ O _x Crystals. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L1184-L1186	1.4	6
11	Controlled release of HS and NO gases through CO-stimulated anion exchange. <i>Nature Communications</i> , 2020 , 11, 453	17.4	5
10	Massive hydration-driven swelling of layered perovskite niobate crystals in aqueous solutions of organo-ammonium bases. <i>Dalton Transactions</i> , 2018 , 47, 3022-3028	4.3	5
9	Reversibly meltable layered alkylsiloxanes with melting points controllable by alkyl chain lengths. <i>New Journal of Chemistry</i> , 2013 , 37, 1142	3.6	5
8	Blue photoluminescence of germania-stabilized benitoite. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 1143-1146	1	5
7	Growth and characterization of Sc ₂ O ₃ -doped LiNbO ₃ . <i>Journal of Crystal Growth</i> , 1993 , 128, 920-923	1.6	5
6	Intercalation of protonated polyoxyalkylene monoamines into a synthetic Li-fluorotaeniolite. <i>Applied Clay Science</i> , 2011 , 52, 133-139	5.2	4
5	Ionic States of Copper Atoms in YBa ₂ Cu ₃ -xO _{7-y} . <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L206-L208	1.4	4
4	Spectral properties of tetraanionic porphyrin in formamide colloids of layered double hydroxides. <i>Open Chemistry</i> , 2008 , 6, 569-574	1.6	2
3	Preparation of a transparent and flexible self-standing film of layered titania/isostearate nanocomposite. <i>Journal of Materials Research</i> , 2005 , 20, 1308-1315	2.5	2
2	Spectral study on the molecular orientation of a tetracationic porphyrin dye on the surface of layered silicates. <i>Open Physics</i> , 2007 , 5,	1.3	1
1	Disposable Nitric Oxide Generator Based on a Structurally Deformed Nitrite-Type Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2021 , 60, 16008-16015	5.1	0