

# Josef Breu

## List of Publications by Year in descending order

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229  
papers

6,021  
citations

76031

42  
h-index

124990

64  
g-index

248  
all docs

248  
docs citations

248  
times ranked

7824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear orientation of nematic phases of clay nanosheets: processing of barrier coatings. <i>Journal of Coatings Technology Research</i> , 2022, 19, 487-495.	1.2	9
2	Bright, noniridescent structural coloration from clay mineral nanosheet suspensions. <i>Science Advances</i> , 2022, 8, eabl8147.	4.7	13
3	Realizing shape and size control for the synthesis of coordination polymer nanoparticles templated by diblock copolymer micelles. <i>Nanoscale</i> , 2022, 14, 3131-3147.	2.8	4
4	Nanoscale-Structured Hybrid Bragg Stacks with Orientation- and Composition-Dependent Mechanical and Thermal Transport Properties: Implications for Nacre Mimetics and Heat Management Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 4119-4129.	2.4	9
5	High Barrier Nanocomposite Film with Accelerated Biodegradation by Clay Swelling Induced Fragmentation. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	11
6	Crystal structure of phenanthrene salts stabilized by 15-crown-5 and 18-crown-6. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2022, 77, 197-201.	0.3	1
7	Nematic suspension of a microporous layered silicate obtained by forceless spontaneous delamination via repulsive osmotic swelling for casting high-barrier all-inorganic films. <i>Science Advances</i> , 2022, 8, eabn9084.	4.7	12
8	Nanoparticles Supported on Subnanometer Oxide Films: Scaling Model Systems to Bulk Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5890-5897.	7.2	14
9	Nanopartikel auf subnanometer dicken oxidischen Filmen: Skalierung von Modellsystemen. <i>Angewandte Chemie</i> , 2021, 133, 5954-5961.	1.6	2
10	Structural and mechanical impact of synthetic clay in composite foams made via high internal phase emulsions. <i>Polymer Composites</i> , 2021, 42, 353-361.	2.3	2
11	Terrestrial solar radiation driven photodecomposition of ciprofloxacin in clinical wastewater applying mesostructured iron(III) oxide. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6222-6231.	2.7	2
12	Sustainable oxygen evolution catalysis via electrochemical generation of manganite via corrosion engineering of steel. <i>Materials Advances</i> , 2021, 2, 5650-5656.	2.6	0
13	Enhancing the Catalytic Activity of Palladium Nanoparticles via Sandwich-Like Confinement by Thin Titanate Nanosheets. <i>ACS Catalysis</i> , 2021, 11, 2754-2762.	5.5	13
14	Large T <sub>g</sub> Shift in Hybrid Bragg Stacks through Interfacial Slowdown. <i>Macromolecules</i> , 2021, 54, 2551-2560.	2.2	7
15	Sandwich-Like Encapsulation of a Highly Luminescent Copper(I) Complex. <i>Advanced Optical Materials</i> , 2021, 9, 2100516.	3.6	12
16	The Effect of Interlayer Anion Grafting on Water Oxidation Electrocatalysis: A Comparative Study of Ni- and Co-Based Brucite-Type Layered Hydroxides, Layered Double Hydroxides and Hydroxynitrate Salts. <i>Chemistry - A European Journal</i> , 2021, 27, 16930-16937.	1.7	12
17	Disorder-Order Transition: Improving the Moisture Sensitivity of Waterborne Nanocomposite Barriers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48101-48109.	4.0	12
18	Colloidally stable, magneto-responsive liquid crystals based on clay nanosheets. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12732-12740.	2.7	5

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19	Unmodified Clay Nanosheets at the Air–Water Interface. <i>Langmuir</i> , 2021, 37, 160-170.	1.6	9
20	Osmotic Delamination: A Forceless Alternative for the Production of Nanosheets Now in Highly Polar and Aprotic Solvents. <i>Langmuir</i> , 2021, 37, 461-468.	1.6	14
21	Patterned Electrode Assisted One-Step Fabrication of Biomimetic Morphing Hydrogels with Sophisticated Anisotropic Structures. <i>Advanced Science</i> , 2021, 8, e2102353.	5.6	35
22	CO <sub>2</sub> Adsorption Enhanced by Tuning the Layer Charge in a Clay Mineral. <i>Langmuir</i> , 2021, , .	1.6	11
23	Flame retardant polyester by combination of organophosphorus compounds and an NOR radical forming agent. <i>Journal of Applied Polymer Science</i> , 2020, 137, 47876.	1.3	10
24	Tunable Thermoelastic Anisotropy in Hybrid Bragg Stacks with Extreme Polymer Confinement. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1286-1294.	7.2	26
25	Titelbild: Tunable Thermoelastic Anisotropy in Hybrid Bragg Stacks with Extreme Polymer Confinement ( <i>Angew. Chem.</i> 3/2020). <i>Angewandte Chemie</i> , 2020, 132, 973-973.	1.6	0
26	Tunable Thermoelastic Anisotropy in Hybrid Bragg Stacks with Extreme Polymer Confinement. <i>Angewandte Chemie</i> , 2020, 132, 1302-1310.	1.6	6
27	Diammonium-Pillared MOPS with Dynamic CO <sub>2</sub> Selectivity. <i>Cell Reports Physical Science</i> , 2020, 1, 100210.	2.8	7
28	Distributed Electric Field Induces Orientations of Nanosheets to Prepare Hydrogels with Elaborate Ordered Structures and Programmed Deformations. <i>Advanced Materials</i> , 2020, 32, e2005567.	11.1	89
29	Light-steered locomotion of muscle-like hydrogel by self-coordinated shape change and friction modulation. <i>Nature Communications</i> , 2020, 11, 5166.	5.8	148
30	A Novel Synthesis Yielding Macroporous CaFe <sub>2</sub> O <sub>4</sub> Sponges for Solar Energy Conversion. <i>Solar Rrl</i> , 2020, 4, 1900570.	3.1	9
31	CO <sub>2</sub> Capture by Nickel Hydroxide Interstratified in the Nanolayered Space of a Synthetic Clay Mineral. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26222-26231.	1.5	12
32	Rapid Low-Dimensional Li <sup>+</sup> Ion Hopping Processes in Synthetic Hectorite-Type Li <sub>0.5</sub> [Mg <sub>2.5</sub> Li <sub>0.5</sub> ]Si <sub>4</sub> O <sub>10</sub> F <sub>2</sub> . <i>Chemistry of Materials</i> , 2020, 32, 7445-7457.	3.2	12
33	Patchy Polymer Micelles and Hybrids: Self-Assembly, Characterization and Utilization in Catalysis. <i>Microscopy and Microanalysis</i> , 2020, 26, 2766-2767.	0.2	0
34	ABSORPTION PIGMENT CORES FOR PEARLESCENT PIGMENTS. <i>Clays and Clay Minerals</i> , 2020, 68, 428-435.	0.6	3
35	Synthesis of Large Platelets of Egyptian Blue via Pseudomorphosis after NaRUB <sup>18</sup> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1570-1574.	0.6	4
36	Encapsulation of Fragrance in Aqueous Emulsions by Delaminated Synthetic Hectorite. <i>Langmuir</i> , 2020, 36, 11061-11067.	1.6	3

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37	Spontaneous formation of an ordered interstratification upon Ni-exchange of Na-fluorohectorite. <i>Applied Clay Science</i> , 2020, 198, 105831.	2.6	7
38	Lightweight Ultra-High-Barrier Liners for Helium and Hydrogen. <i>ACS Nano</i> , 2020, 14, 7018-7024.	7.3	26
39	Surface charge density and diffuse layer properties of highly defined 2:1 layered silicate platelets. <i>Colloid and Polymer Science</i> , 2020, 298, 907-920.	1.0	2
40	Influence of Particle Size on Toughening Mechanisms of Layered Silicates in CFRP. <i>Materials</i> , 2020, 13, 2396.	1.3	3
41	Osmotic Swelling of Sodium Hectorite in Ternary Solvent Mixtures: Nematic Liquid Crystals in Hydrophobic Media. <i>Langmuir</i> , 2020, 36, 3814-3820.	1.6	10
42	Anisotropic Thermal Transport in Spray-Coated Single-Phase Two-Dimensional Materials: Synthetic Clay Versus Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18785-18791.	4.0	15
43	Impact of Ultraconfinement on Composite Barriers. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3010-3015.	2.0	17
44	Layering-triggered Delayering with Exfoliated High-Aspect Ratio Layered Silicate for Enhanced Gas Barrier, Mechanical Properties, and Degradability of Biodegradable Polymers. <i>Global Challenges</i> , 2020, 4, 2000030.	1.8	9
45	Competition between nucleation and confinement in the crystallization of poly(ethylene glycol)/ large aspect ratio hectorite nanocomposites. <i>Polymer</i> , 2020, 202, 122734.	1.8	21
46	The Upper Limit of Luminol's Amphiprotism: The Crystal Structure of 5- <i>Ammonium</i> -2-hydroxy-1,4-phthalzinediol Sulfate(IV). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 162-165.	0.6	1
47	Visualizing Transparent 2D Sheets by Fluorescence Quenching Microscopy. <i>Small Methods</i> , 2020, 4, 2000036.	4.6	6
48	Digital Programming Graphene Oxide Liquid Crystalline Hybrid Hydrogel by Shearing Microlithography. <i>ACS Nano</i> , 2020, 14, 2336-2344.	7.3	19
49	Investigation of flame retarded polypropylene by high-speed planar laser-induced fluorescence of OH radicals combined with a thermal decomposition analysis. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	8
50	Trivalent iron rich CoFe layered oxyhydroxides for electrochemical water oxidation. <i>Electrochimica Acta</i> , 2020, 350, 136256.	2.6	8
51	High Temperature Stable Maghemite Nanoparticles Sandwiched between Hectorite Nanosheets. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1110-1115.	0.6	9
52	Photonic composite materials from cellulose nanorods and clay nanolayers. <i>European Physical Journal: Special Topics</i> , 2020, 229, 2741-2755.	1.2	6
53	Optical manipulation of a single clay nanosheet hybridized with a porphyrin derivative. <i>OSA Continuum</i> , 2020, 3, 1545.	1.8	1
54	M <sub>4</sub> Ssbauerite as Iron-Only Layered Oxyhydroxide Catalyst for WO <sub>3</sub> Photoanodes. <i>Inorganic Chemistry</i> , 2019, 58, 9655-9662.	1.9	9

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55	Structure of Na <sub>3</sub> [Al(L-Lactate) <sub>3</sub> ] <sub>2</sub> ·6H <sub>2</sub> O Crystallized from Lohtragon AL 250® A Commercial Cement Adjuvant. <i>Crystal Growth and Design</i> , 2019, 19, 4557-4563.	1.4	1
56	Structure Determination of the Oxygen Evolution Catalyst M <sub>1</sub> ssbauerite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25157-25165.	1.5	7
57	Amphiphilic iron(II) spin crossover coordination polymers: crystal structures and phase transition properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1151-1163.	2.7	21
58	Electrostatic attraction of nanoobjects – a versatile strategy towards mesostructured transition metal compounds. <i>CrystEngComm</i> , 2019, 21, 4840-4850.	1.3	3
59	Gradient-Structured Nonflammable Flexible Polymer Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11876-11883.	4.0	6
60	Filter-Through Method of Making Highly Efficient Polymer-Clay Nanocomposite Membranes. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800779.	1.7	9
61	Thermal expansion of clay polymer nanocomposites as a function of aspect ratio and filler content. <i>Polymer</i> , 2019, 169, 74-79.	1.8	3
62	GIANT MULTISTEP CRYSTALLINE VS. OSMOTIC SWELLING OF SYNTHETIC HECTORITE IN AQUEOUS ACETONITRILE. <i>Clays and Clay Minerals</i> , 2019, 67, 481-487.	0.6	10
63	Microporous Organically Pillared Layered Silicates (MOPS): A Versatile Class of Functional Porous Materials. <i>Chemistry - A European Journal</i> , 2019, 25, 2103-2111.	1.7	4
64	Determination of the charge of Al <sub>13</sub> Keggin oligocations intercalated into synthetic hectorite. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019, 74, 85-90.	0.3	0
65	Oxygen Evolution Catalysis with M <sub>1</sub> ssbauerite – A Trivalent Iron-Only Layered Double Hydroxide. <i>Chemistry - A European Journal</i> , 2018, 24, 9004-9008.	1.7	15
66	Pushing the Boundaries of Interfacial Sensitivity in Graphene FET Sensors: Polyelectrolyte Multilayers Strongly Increase the Debye Screening Length. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10181-10188.	1.5	51
67	Parallel and Perpendicular Alignment of Anisotropic Particles in Free Liquid Microjets and Emerging Microdroplets. <i>Langmuir</i> , 2018, 34, 4843-4851.	1.6	15
68	Purely Physisorption-Based CO <sub>2</sub> -Selective Gate-Opening in Microporous Organically Pillared Layered Silicates. <i>Angewandte Chemie</i> , 2018, 130, 573-577.	1.6	4
69	Layer charge robust delamination of organo-clays. <i>RSC Advances</i> , 2018, 8, 28797-28803.	1.7	27
70	The Nature of Laponite: Pure Hectorite or a Mixture of Different Trioctahedral Phases?. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 314.	0.8	35
71	Influence of size, aspect ratio and shear stiffness of nanoclays on the fatigue crack propagation behavior of their epoxy nanocomposites. <i>Polymer</i> , 2018, 158, 372-380.	1.8	11
72	High-Barrier, Biodegradable Food Packaging. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800333.	1.7	33

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73	Strategies for the selective loading of patchy worm-like micelles with functional nanoparticles. <i>Nanoscale</i> , 2018, 10, 18257-18268.	2.8	26
74	Electronic biosensing with flexible organic transistor devices. <i>Flexible and Printed Electronics</i> , 2018, 3, 034003.	1.5	26
75	Onset of Osmotic Swelling in Highly Charged Clay Minerals. <i>Langmuir</i> , 2018, 34, 8215-8222.	1.6	41
76	Purely Physisorption-Based CO <sub>2</sub> -Selective Gate-Opening in Microporous Organically Pillared Layered Silicates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 564-568.	7.2	7
77	Two-Step Delamination of Highly Charged, Vermiculite-like Layered Silicates via Ordered Heterostructures. <i>Langmuir</i> , 2017, 33, 4816-4822.	1.6	19
78	Large Scale Self-Assembly of Smectic Nanocomposite Films by Doctor Blading versus Spray Coating: Impact of Crystal Quality on Barrier Properties. <i>Macromolecules</i> , 2017, 50, 4344-4350.	2.2	41
79	Fundamental theoretical and practical investigations of the polymorph formation of small amphiphilic molecules, their co-crystals and salts. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 55-67.	0.4	4
80	Clinical wastewater treatment: Photochemical removal of an anionic antibiotic (ciprofloxacin) by mesostructured high aspect ratio ZnO nanotubes. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 561-565.	10.8	85
81	Constant Volume Gate-Opening by Freezing Rotational Dynamics in Microporous Organically Pillared Layered Silicates. <i>Journal of the American Chemical Society</i> , 2017, 139, 904-909.	6.6	25
82	Systematic evaluation of different types of graphene oxide in respect to variations in their in-plane modulus. <i>Carbon</i> , 2017, 114, 700-705.	5.4	44
83	Template Removal via Boudouard Equilibrium Allows for Synthesis of Mesostructured Molybdenum Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13968-13972.	7.2	2
84	Template Removal via Boudouard Equilibrium Allows for Synthesis of Mesostructured Molybdenum Compounds. <i>Angewandte Chemie</i> , 2017, 129, 14156-14160.	1.6	2
85	Sub-micron pore size tailoring for efficient chiral discrimination. <i>Chemical Communications</i> , 2017, 53, 1072-1075.	2.2	9
86	The Forgotten Polymorphism of Hydrazine Sulfate: Crystal Structure of the Metastable Monoclinic Form II. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 2019-2023.	0.6	1
87	Mesostructured ZnO/Au nanoparticle composites with enhanced photocatalytic activity. <i>Polymer</i> , 2017, 128, 65-70.	1.8	14
88	Single-Crystal Structure and Electronic Conductivity of Melt Synthesized Fe-rich, near End-Member Ferrokinoshitalite. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1661-1667.	0.6	0
89	Can high oxygen and water vapor barrier nanocomposite coatings be obtained with a waterborne formulation?. <i>Journal of Membrane Science</i> , 2017, 540, 212-218.	4.1	42
90	Microphase separation upon crystallization of small amphiphilic molecules: a low temperature form II of sodium benzoate (E 211). <i>CrystEngComm</i> , 2016, 18, 5811-5817.	1.3	3

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91	Controlled Exfoliation of Layered Silicate Heterostructures into Bilayers and Their Conversion into Giant Janus Platelets. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7398-7402.	7.2	27
92	Structural Insights into Water-Based Spider Silk Proteinâ€“Nanoclay Composites with Excellent Gas and Water Vapor Barrier Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25535-25543.	4.0	44
93	In-Depth Insights into the Key Steps of Delamination of Charged 2D Nanomaterials. <i>Langmuir</i> , 2016, 32, 10582-10588.	1.6	73
94	Synthesis of [Fe(L)(bipy)] <sub>n</sub> spin crossover nanoparticles using blockcopolymer micelles. <i>Nanoscale</i> , 2016, 8, 19058-19065.	2.8	30
95	Behind Crime Scenes: The Crystal Structure of Commercial Luminol. <i>Crystal Growth and Design</i> , 2016, 16, 3014-3018.	1.4	7
96	Controlled Exfoliation of Layered Silicate Heterostructures into Bilayers and Their Conversion into Giant Janus Platelets. <i>Angewandte Chemie</i> , 2016, 128, 7524-7528.	1.6	8
97	Superior flame retardant by combining high aspect ratio layered double hydroxide and graphene oxide. <i>Polymer</i> , 2016, 91, 41-49.	1.8	69
98	Increasing time of ignition for PS-clay nanocomposites filled with [Fe(bpy) <sub>3</sub> ] <sup>2+</sup> -modified hectorite. <i>Polymer Degradation and Stability</i> , 2016, 128, 141-148.	2.7	8
99	Selective Template Removal by Thermal Depolymerization to Obtain Mesostructured Molybdenum Oxycarbide. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1829-1834.	0.6	6
100	Gasâ€“Phase Preparation of SO <sub>3</sub> â€“Graphite: Hostâ€“Exchange and Exfoliation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1093-1098.	0.6	4
101	The Same at a First Glance: The Diffractogram of a New Polymorph of Anhydrous Sodium Luminolate Almost Perfectly Resembles the Diffraction Trace of an Already Known Polymorph. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 332-338.	0.6	6
102	Encapsulation of Functional Organic Compounds in Nanoglass for Optically Anisotropic Coatings. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4963-4967.	7.2	20
103	Analyzing the influence of particle size and stiffness state of the nanofiller on the mechanical properties of epoxy/clay nanocomposites using a novel shear-stiff nano-mica. <i>Journal of Materials Science</i> , 2015, 50, 4845-4859.	1.7	25
104	Ultralight, Soft Polymer Sponges by Selfâ€“Assembly of Short Electrospun Fibers in Colloidal Dispersions. <i>Advanced Functional Materials</i> , 2015, 25, 2850-2856.	7.8	164
105	Transfer batch blending, an innovative solvent/solid assisted method for melt compounding to achieve good dispersion quality for polymerâ€“clay-nanocomposites. <i>Composites Science and Technology</i> , 2015, 114, 34-41.	3.8	10
106	Tunable Exfoliation of Synthetic Clays. <i>Annual Review of Materials Research</i> , 2015, 45, 129-151.	4.3	53
107	Applying the flame retardant LDH as a Trojan horse for molecular flame retardants. <i>Applied Clay Science</i> , 2015, 114, 603-608.	2.6	23
108	Preparation of microcellular low-density PMMA nanocomposite foams: Influence of different fillers on the mechanical, rheological and cell morphological properties. <i>Composites Science and Technology</i> , 2015, 118, 108-116.	3.8	44

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109	Quasi-epitaxial Growth of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> by Confinement in Clay Nanoplatelets Yields Polarized Emission. <i>Small</i> , 2015, 11, 792-796.	5.2	8
110	Switching On Quantum Size Effects in Silicon Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 746-749.	11.1	43
111	Evaluierung von Struktur-Eigenschaftsbeziehungen in PMMA-Nanokompositen auf Basis einer neuen Generation an Schichtsilikaten. <i>Zeitschrift Kunststofftechnik/Journal of Plastics Technology</i> , 2015, 3, 131-156.	0.1	0
112	BaFe <sub>1-x</sub> TaxO <sub>3</sub> - A material for temperature independent resistive oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 208-213.	4.0	17
113	Towards completely miscible PMMA nanocomposites reinforced by shear-stiff, nano-mica. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 143-151.	5.0	16
114	The Largely Unknown Class of Microporous Hybrid Materials: Clays Pillared by Molecules. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 547-560.	0.6	15
115	Facile large-scale synthetic route to monodisperse ZnO nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 444, 76-80.	2.3	13
116	Facile and scalable one-step production of organically modified graphene oxide by a two-phase extraction. <i>Carbon</i> , 2014, 80, 229-234.	5.4	19
117	Tris(2,4,6-triamino-1,3,5-triazin-1-ium) Dihydrogenphosphate Monohydrogenphosphate Tetrahydrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 2871-2875.	0.6	0
118	Ordered Heterostructures of Two Strictly Alternating Types of Nanoreactors. <i>Chemistry of Materials</i> , 2014, 26, 5412-5419.	3.2	22
119	Modification of kaolinite by Grafting of siderophilic ligands to the external octahedral surface. <i>Applied Clay Science</i> , 2014, 90, 67-72.	2.6	10
120	Relative Humidity-Induced Reversible Hydration Of Sulfate-Intercalated Layered Double Hydroxides. <i>Clays and Clay Minerals</i> , 2014, 62, 53-61.	0.6	20
121	On the importance of specific interface area in clay nanocomposites of PMMA filled with synthetic nano-mica. <i>Polymer</i> , 2014, 55, 3770-3781.	1.8	13
122	CO <sub>2</sub> gas barrier properties in polymer nanocomposite coatings containing Li Hectorite clays. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	14
123	Space-Resolved In-Plane Moduli of Graphene Oxide and Chemically Derived Graphene Applying a Simple Wrinkling Procedure (Adv. Mater. 9/2013). <i>Advanced Materials</i> , 2013, 25, 1336-1336.	11.1	0
124	Space-Resolved In-Plane Moduli of Graphene Oxide and Chemically Derived Graphene Applying a Simple Wrinkling Procedure. <i>Advanced Materials</i> , 2013, 25, 1337-1341.	11.1	37
125	Hierarchically porous tungsten oxidenanotubes with crystalline walls made of the metastable orthorhombic polymorph. <i>Journal of Materials Chemistry A</i> , 2013, 1, 381-387.	5.2	30
126	Synthesis and reversible hydration behavior of the thiosulfate intercalated layered double hydroxide of Zn and Al. <i>Journal of Solid State Chemistry</i> , 2013, 204, 362-366.	1.4	6



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127	Smectite fluorination and its impact on interlayer water content and structure: A way to fine tune the hydrophilicity of clay surfaces?. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 233-247.	2.2	53
128	Hybrid Janus particles based on polymer-modified kaolinite. <i>Polymer</i> , 2013, 54, 1388-1396.	1.8	43
129	Anisotropy of Water Dynamics in Clays: Insights from Molecular Simulations for Experimental QENS Analysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15106-15115.	1.5	63
130	Nanoplatelets of Sodium Hectorite Showing Aspect Ratios of $\sim 20000$ and Superior Purity. <i>Langmuir</i> , 2013, 29, 1280-1285.	1.6	109
131	Influence of Cation Size on the Co-crystallisation of Benzoic Acid with Different Benzoates. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 308-311.	0.6	3
132	Synthesis and single crystal structure refinement of the one-layer hydrate of sodium brittle mica. <i>Journal of Solid State Chemistry</i> , 2013, 198, 57-64.	1.4	12
133	Clay-Based Nanocomposite Coating for Flexible Optoelectronics Applying Commercial Polymers. <i>ACS Nano</i> , 2013, 7, 4275-4280.	7.3	82
134	In-Plane Modulus of Singular 2:1 Clay Lamellae Applying a Simple Wrinkling Technique. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5851-5855.	4.0	25
135	Porosity of Pillared Clays Studied by Hyperpolarized $^{129}\text{Xe}$ NMR Spectroscopy and Xe Adsorption Isotherms. <i>Langmuir</i> , 2013, 29, 643-652.	1.6	27
136	Transition metals in micas: synthesis and characterization of Co-rich Cs-tainiolite. <i>European Journal of Mineralogy</i> , 2013, 25, 487-494.	0.4	2
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