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Highly Controlled Diffusion Drug Release from Ureasil-Poly(ethylene oxide)-Na-Montmorillonite Hybrid Hydrogel Nanocomposites

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#	Paper	IF	Citations
31	Coupling Photoluminescence and Ionic Conduction Properties Using the Different Coordination Sites of Ureasil-Polyether Hybrid Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37364-37373	9.5	6
30	Two-dimensional nanomaterials: fascinating materials in biomedical field. <i>Science Bulletin</i> , 2019 , 64, 1707-1727	10.2	76
29	Quaternized Chitosan-Coated Montmorillonite Interior Antimicrobial Metal-Antibiotic Coordination Complexation for Mixed Infections of Wounds. <i>Langmuir</i> , 2019 , 35, 15275-15286	4	10
28	Fabrication of hemicelluloses films with enhanced mechanical properties by graphene oxide for humidity sensing. <i>Carbohydrate Polymers</i> , 2019 , 208, 513-520	10.3	14
27	Ureasil Organic-Inorganic Hybrid as a Potential Carrier for Combined Delivery of Anti-Inflammatory and Anticancer Drugs.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1875-1883	4.1	7
26	Development of a gelatin-g-poly(acrylic acid-co-acrylamide)montmorillonite superabsorbent hydrogels for in vitro controlled release of vitamin B12. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47596	2.9	16
25	Clay/PVP nanocomposites enriched with Syzygium aromaticum essential oil as a safe formulation against Aedes aegypti larvae. <i>Applied Clay Science</i> , 2020 , 185, 105394	5.2	11
24	Montmorillonite-based polyacrylamide hydrogel rings for controlled vaginal drug delivery. <i>Materials Science and Engineering C</i> , 2020 , 110, 110609	8.3	20
23	Water Diffusion in Polymer Composites Probed by Impedance Spectroscopy and Time-Resolved Chemical Imaging. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 837-845	4.3	7
22	A Fluorescent DNA Hydrogel Aptasensor Based on the Self-Assembly of Rolling Circle Amplification Products for Sensitive Detection of Ochratoxin A. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 369-375	5.7	33
21	Recent developments in the use of organic-inorganic nanohybrids for drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020 , 12, e1605	9.2	16
20	Surface Laser-Marking and Mechanical Properties of Acrylonitrile-Butadiene-Styrene Copolymer Composites with Organically Modified Montmorillonite. <i>ACS Omega</i> , 2020 , 5, 19255-19267	3.9	8
19	Design and preparation of quaternized pectin-Montmorillonite hybrid film for sustained drug release. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 413-420	7.9	20
18	Improved adsorption performance of rubber-based hydrogel: optimisation through response surface methodology, isotherm, and kinetic studies. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 94, 322-334	2.3	11
17	Clay-Polymer Nanocomposites Prepared by Reactive Melt Extrusion for Sustained Drug Release. <i>Pharmaceutics</i> , 2020 , 12,	6.4	17
16	Effect of sodium bentonite content on structural-properties of ureasil poly(ethylene oxide)-PEO hybrid: A perspective for water treatment. <i>Applied Clay Science</i> , 2020 , 191, 105605	5.2	1
15	Structure Regulation of Bentonite-Alginate Nanocomposites for Controlled Release of Imidacloprid. <i>ACS Omega</i> , 2020 , 5, 10068-10076	3.9	17

14	Biomolecule-assisted synthesis of biomimetic nanocomposite hydrogel for hemostatic and wound healing applications. <i>Green Chemistry</i> , 2021 , 23, 629-669	10	26
13	Extended release of 6-aminopenicillanic acid by silanol group functionalized vermiculite. <i>Journal of Dispersion Science and Technology</i> , 1-14	1.5	2
12	Magnetic Carrageenan/chitosan/montmorillonite nanocomposite hydrogels with controlled sunitinib release. <i>Materials Science and Engineering C</i> , 2021 , 124, 112042	8.3	7
11	In ₂ S ₃ -Polymer Hybrid Gels Derived from In(III) Metal-Organic Gels for Dye Adsorption, Photodegradation, and Bacteria Removal. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100290	3.9	1
10	Ureasil-Polyether-Fe ₂ O ₄ Nanocomposites: Coupling a Drug Delivery System and Magnetic Hyperthermia. <i>ACS Applied Polymer Materials</i> ,	4.3	0
9	Progress in Montmorillonite Functionalized Artificial Bone Scaffolds: Intercalation and Interlocking, Nanoenhancement, and Controlled Drug Release. <i>Journal of Nanomaterials</i> , 2022 , 2022, 1-20	3.2	1
8	Interactions of layered clay minerals with water-soluble polymers; structural design and functions. <i>Applied Clay Science</i> , 2022 , 222, 106487	5.2	2
7	Highly Stretchable, Self-Adhesive, Direction-Aware Wireless Hydrogel-MMT Strain Sensors via a Gradient Structure of Intersecting Networks. <i>ACS Applied Electronic Materials</i> ,	4	1
6	Cationic starch modified bentonite-alginate nanocomposites for highly controlled diffusion release of pesticides. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	1
5	Development of Cationic Cellulose-Modified Bentonite-Alginate Nanocomposite Gels for Sustained Release of Alachlor. <i>ACS Omega</i> ,	3.9	1
4	Facile construction of cationic lignin modified bentonite-alginate nanocomposite gel for sustained release of alachlor. <i>Journal of Applied Polymer Science</i> ,	2.9	0
3	One-pot self-assembly fabrication of chitosan coated hollow sphere for pH/ glutathione dual responsive drug delivery. 2022 , 218, 112773		0
2	Organic-Inorganic NanoHybrids in Tissue Engineering and Drug Delivery Applications. 2022 , 133-150		0
1	Effect of Organomontmorillonite-Cloisite® 20A Incorporation on the Structural and Drug Release Properties of Ureasil-BEO Hybrid. 2023 , 15, 33		0