

Mazen Al-Ghoul

List of Publications by Year in descending order

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37
papers

1,171
citations

516710

16
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377865

34
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all docs

38
docs citations

38
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Growth of ZIF-8, ZIF-67, and Their Mixed-Metal Derivatives. <i>Journal of the American Chemical Society</i> , 2018, 140, 1812-1823.	13.7	496
2	Surface-functionalized silica aerogels and alcogels for methylene blue adsorption. <i>RSC Advances</i> , 2015, 5, 6111-6122.	3.6	53
3	Metal-Organic Framework-74 for Ultratrace Arsenic Removal from Water: Experimental and Density Functional Theory Studies. <i>ACS Applied Nano Materials</i> , 2018, 1, 3283-3292.	5.0	53
4	Cosynthesis, Coexistence, and Self-Organization of Zn^{2+} - and Co^{2+} -Cobalt Hydroxide Based on Diffusion and Reaction in Organic Gels. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7755-7757.	2.5	41
5	Characterization of internal structure of hydrated agar and gelatin matrices by cryo-SEM. <i>Electrophoresis</i> , 2013, 34, 405-408.	2.4	38
6	Band Propagation, Scaling Laws and Phase Transition in a Precipitate System. I: Experimental Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4427-4437.	2.5	34
7	Kinetics and mechanism of ionic intercalation/de-intercalation during the formation of Zn^{2+} -cobalt hydroxide and its polymorphic transition to Co^{2+} -cobalt hydroxide: reaction-diffusion framework. <i>Journal of Materials Chemistry</i> , 2012, 22, 16361.	6.7	34
8	Synthesis, size and structural evolution of metal-organic framework-199 via a reaction-diffusion process at room temperature. <i>CrystEngComm</i> , 2017, 19, 608-612.	2.6	33
9	Liesegang Banding for Controlled Size and Growth of Zeolitic Imidazolate Frameworks. <i>Small</i> , 2019, 15, e1901605.	10.0	33
10	Cadmium-Aluminum Layered Double Hydroxide Microspheres for Photocatalytic CO_2 Reduction. <i>ChemSusChem</i> , 2016, 9, 800-805.	6.8	30
11	Generalized Hydrodynamic Theory of Shock Waves: Mach-Number Dependence of Inverse Shock Width for Nitrogen Gas. <i>Physical Review Letters</i> , 2001, 86, 4294-4297.	7.8	26
12	Morphology, Particle Size Distribution, and Composition in One- and Two-Salt Metal Oxinate Liesegang Patterns. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1507-1514.	2.6	26
13	Reaction-diffusion based co-synthesis of stable Zn^{2+} - and Co^{2+} -cobalt hydroxide in bio-organic gels. <i>Journal of Crystal Growth</i> , 2010, 312, 856-862.	1.5	24
14	Hyperbolic Reaction-Diffusion Equations, Patterns, and Phase Speeds for the Brusselator. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18900-18910.	2.9	20
15	Transition from rings to spots in a precipitation reaction-diffusion system. <i>RSC Advances</i> , 2014, 4, 60034-60038.	3.6	20
16	Controlled growth and composition of multivariate metal-organic frameworks-199 via a reaction-diffusion process. <i>Nano Research</i> , 2021, 14, 423-431.	10.4	17
17	Pulse-Front Propagation and Interaction During the Growth of CdS Nanoparticles in a Gel. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11594-11603.	2.6	16
18	Simulation of geochemical banding I: Acidization-precipitation experiments in a ferruginous limestone rock. <i>Chemical Geology</i> , 2016, 440, 42-49.	3.3	15

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19	Generalized hydrodynamics and microflows. <i>Physical Review E</i> , 2004, 70, 016301.	2.1	13
20	Dynamics and Mechanism of Intercalation/De-Intercalation of Rhodamine B during the Polymorphic Transformation of the CdAl Layered Double Hydroxide to the Brucite-like Cadmium Hydroxide. <i>Crystal Growth and Design</i> , 2016, 16, 4327-4335.	3.0	13
21	Nonequilibrium partition function in the presence of heat flow. <i>Journal of Chemical Physics</i> , 2001, 115, 8481-8488.	3.0	11
22	Reaction-Diffusion Framework: The Mechanism of the Polymorphic Transition of \hat{I}^{\pm} - to \hat{I}^2 -Cobalt Hydroxide. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1685-1691.	2.5	11
23	Self-assembled lanthanum hydroxide microspheres within a reaction-diffusion framework: synthesis, characterization, control and application. <i>RSC Advances</i> , 2016, 6, 3433-3439.	3.6	11
24	Tuning the structural properties of cadmium-aluminum layered double hydroxide for enhanced photocatalytic dye degradation. <i>RSC Advances</i> , 2020, 10, 43066-43074.	3.6	11
25	Experimental Study of the Dynamics of Front Propagation in the $\text{Co}(\text{OH})_2/\text{NH}_4\text{OH}$ Liesegang System Using Spectrophotometry. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8038-8045.	2.5	10
26	Stability and particle size control of self-assembled cadmium-aluminum layered double hydroxide. <i>CrystEngComm</i> , 2016, 18, 8445-8453.	2.6	10
27	Alternating Metastable/Stable Pattern in the Mercuric Iodide Crystal Formation Outside the Ostwald Rule of Stages. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7725-7731.	2.5	9
28	Kinetics of intercalation of fluorescent probes in magnesium-aluminium layered double hydroxide within a multiscale reaction-diffusion framework. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160138.	3.4	9
29	Superdiffusive Cusp-Like Waves in the Mercuric Iodide Precipitate System and Their Transition to Regular Reaction Bands. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3857-3865.	2.5	8
30	Targets, ripples and spirals in a precipitation system with anomalous dispersion. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19806-19814.	2.8	8
31	Band Propagation, Scaling Laws, and Phase Transition in a Precipitate System. 2. Computational Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9201-9209.	2.5	7
32	Simulation of geochemical banding: Theoretical modeling and fractal structure in acidization-diffusion-precipitation dynamics. <i>Physical Review E</i> , 2019, 100, 052214.	2.1	7
33	Generalized hydrodynamics of reaction-diffusion systems and dissipative structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 1567-1581.	3.4	6
34	Vertex-based finite volume simulation of Liesegang patterns on structureless meshes. <i>Physical Review E</i> , 2014, 89, 033303.	2.1	6
35	Control of Particle Size and Morphology of MOF-199 Crystals via a Reaction-Diffusion Framework. <i>Defect and Diffusion Forum</i> , 0, 380, 39-47.	0.4	6
36	SIMULATION OF GEOCHEMICAL BANDING IN ACIDIZATION-PRECIPIATION EXPERIMENTS IN-SITU. , 2006, , ,		4

#	ARTICLE	IF	CITATIONS
37	Band Propagation, Scaling Laws, and Phase Transition in a Precipitate System III: Effect of the Anions of Precursors. Journal of Physical Chemistry A, 2020, 124, 39-45.	2.5	1