

# George P Demopoulos

## List of Publications by Year in descending order

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204  
papers

7,168  
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57752  
44  
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74160  
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209  
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209  
docs citations

209  
times ranked

7106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon doped carbon nanotubes as high energy anode for lithium-ion batteries. Materials Today Communications, 2022, 30, 103158.	1.9	8
2	Selenate Se(VI) reduction to elemental selenium on heterojunctioned rutile/brookite nano-photocatalysts with enhanced charge utilization. Chemical Engineering Journal, 2022, 437, 135470.	12.7	5
3	Graphene nanobuds as a novel anode design paradigm with superior Li-ion storage capacity and rate capability. Carbon, 2022, 199, 486-496.	10.3	3
4	Defect Engineering of Iron-Rich Orthosilicate Cathode Materials with Enhanced Lithium-Ion Intercalation Capacity and Kinetics. ACS Applied Energy Materials, 2020, 3, 675-686.	5.1	3
5	Electrophoretically co-deposited Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /reduced graphene oxide nanolayered composites for high-performance battery application. Energy Storage Materials, 2020, 26, 560-569.	18.0	33
6	Nanoscale assembling of graphene oxide with electrophoretic deposition leads to superior percolation network in Li-ion electrodes: TiNb <sub>2</sub> O <sub>7</sub> /rGO composite anodes. Nanoscale, 2020, 12, 23092-23104.	5.6	14
7	A sustainable light-chargeable two-electrode energy storage system based on aqueous sodium-ion photo-intercalation. Sustainable Energy and Fuels, 2020, 4, 4789-4799.	4.9	11
8	Core hole screened electron energy loss calculations of beam damaged lithium fluoride. Ultramicroscopy, 2020, 219, 113126.	1.9	0
9	Silicate Nanocrystals: PEDOT Encapsulated and Mechanochemically Engineered Silicate Nanocrystals for High Energy Density Cathodes (Adv. Mater. Interfaces 13/2020). Advanced Materials Interfaces, 2020, 7, 2070075.	3.7	0
10	Toward an All <sup>+</sup> Ceramic Cathode <sup>+</sup> Electrolyte Interface with Low <sup>+</sup> Temperature Pressed NASICON Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> Electrolyte. Advanced Materials Interfaces, 2020, 7, 2000164.	3.7	17
11	PEDOT Encapsulated and Mechanochemically Engineered Silicate Nanocrystals for High Energy Density Cathodes. Advanced Materials Interfaces, 2020, 7, 2000226.	3.7	4
12	Hot Press Method: Toward an All <sup>+</sup> Ceramic Cathode <sup>+</sup> Electrolyte Interface with Low <sup>+</sup> Temperature Pressed NASICON Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> Electrolyte (Adv. Mater. Interfaces 12/2020). Advanced Materials Interfaces, 2020, 7, 2070069.	3.7	1
13	Unusual Li-ion Intercalation Activation with Progressive Capacity Increase in Orthosilicate Nanocomposite Cathode. Journal of Physical Chemistry C, 2020, 124, 5966-5977.	3.1	3
14	Progress and Status of Hydrometallurgical and Direct Recycling of Li-Ion Batteries and Beyond. Materials, 2020, 13, 801.	2.9	205
15	Tunable Composition Aqueous-Synthesized Mixed-Phase TiO <sub>2</sub> Nanocrystals for Photo-Assisted Water Decontamination: Comparison of Anatase, Brookite and Rutile Photocatalysts. Catalysts, 2020, 10, 407.	3.5	41
16	Electrochemical Re-Functionalization of Spent FePO <sub>4</sub> Originating from LiFePO <sub>4</sub> Battery Recycling. ECS Meeting Abstracts, 2020, MA2020-01, 81-81.	0.0	0
17	Effect of the Electron Transport Layer on the Photovoltaic Properties of Hybrid Organic Inorganic Perovskites Solar Cells: Cross-Section of Optics, Morphology, Composition and Quality. ECS Meeting Abstracts, 2020, MA2020-01, 872-872.	0.0	0
18	Enhanced Capacity and Retention in Lithium Iron Orthosilicate Cathode Via Tuning Its Composition By Hydrothermal Synthesis. ECS Meeting Abstracts, 2020, MA2020-01, 153-153.	0.0	0

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19	Improving 2D Hybrid Energy Storage Electrode Homogeneity Via Graphene Oxide/Active Nanomaterial Electrophoretic Co-Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 597-597.	0.0	0
20	Mechanochemical Engineering of Polymer-Coated Silicate Nanocrystal Cathodes. ECS Meeting Abstracts, 2020, MA2020-01, 388-388.	0.0	0
21	Synthesis of Mixed Phase nanoTiO <sub>2</sub> particles & Their Application in Photocatalytic Water Decontamination. ECS Meeting Abstracts, 2020, MA2020-01, 2928-2928.	0.0	0
22	(Invited) Composition and Interfacial Engineering of Lithium Iron Orthosilicate Cathodes with Superior Intercalation Properties. ECS Meeting Abstracts, 2020, MA2020-02, 41-41.	0.0	0
23	New Insight into Sulfurized and Selenized Kesteriteâ€“Titania Nanostructures for CdS-free and HTM-free Photovoltaic and Voltage-Modulated Photodetecting Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 15093-15101.	6.7	6
24	Aqueous-based Binary Sulfide Nanoparticle Inks for Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Films Stabilized with Tin(IV) Chalcogenide Complexes. Nanomaterials, 2019, 9, 1382.	4.1	4
25	Kinetics of iron(III)-catalyzed oxidation of arsenic(III) in acidic solutions with SO <sub>2</sub> /O <sub>2</sub> gas mixture using different iron sources. Hydrometallurgy, 2019, 189, 105130.	4.3	7
26	Mechanochemically tuned structural annealing: a new pathway to enhancing Li-ion intercalation activity in nanosized $\text{Li}_{2\text{FeSiO}_4}$ . Journal of Materials Chemistry A, 2019, 7, 13705-13713.	10.3	6
27	Lithium Photoâ€“intercalation of CdSâ€“sensitized WO <sub>3</sub> Anode for Energy Storage and Photoelectrochromic Applications. ChemSusChem, 2019, 12, 2220-2230.	6.8	36
28	Unveiling the mechanism of improved capacity retention in $\text{PmnLi}_{2\text{FeSiO}_4}$ cathode by cobalt substitution. Journal of Materials Chemistry A, 2019, 7, 25399-25414.	10.3	11
29	Highly conductive NMP-free carbon-coated nano-lithium titanate/carbon composite electrodes via SBR-assisted electrophoretic deposition. Electrochimica Acta, 2019, 299, 107-115.	5.2	22
30	Hydrothermal crystallization of Pmn <sub>21</sub> Li <sub>2</sub> FeSiO <sub>4</sub> hollow mesocrystals for Li-ion cathode application. Chemical Engineering Journal, 2019, 359, 1592-1602.	12.7	26
31	Ethylenediamine-Enabled Sustainable Synthesis of Mesoporous Nanostructured Li <sub>2</sub> Fe <sub>10</sub> SiO <sub>4</sub> Particles from Fe(III) Aqueous Solution for Li-Ion Battery Application. ACS Sustainable Chemistry and Engineering, 2018, 6, 7458-7467.	6.7	14
32	Phase Transition of FeSO <sub>4</sub> ·7H <sub>2</sub> O to FeSO <sub>4</sub> ·H <sub>2</sub> O in the H <sub>2</sub> SO <sub>4</sub> â€“HClâ€“H <sub>2</sub> O System by Modeling Solubility. ACS Sustainable Chemistry and Engineering, 2018, 6, 2207-2219.	6.7	4
33	Development of an Encapsulation Process to Extend the Stability of Scorodite Under Wider pH and Redox Potential Range Conditions. Minerals, Metals and Materials Series, 2018, , 1411-1420.	0.4	4
34	Hydrothermal Production of Lithium Metal Silicate Powders with Controlled Properties for Application to Li-ion Batteries. Minerals, Metals and Materials Series, 2018, , 2555-2563.	0.4	0
35	Nanoengineering of the Cu <sub>2</sub> ZnSnS <sub>4</sub> â€“TiO <sub>2</sub> interface <i>via</i> atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> for high sensitivity photodetectors and solid state solar cells. Journal of Materials Chemistry A, 2018, 6, 11507-11520.	10.3	27
36	Hydrolytic Precipitation of Nanosized TiO <sub>2</sub> Phases for Use as Photocatalytic Sorption Media in Effluent Treatment. Minerals, Metals and Materials Series, 2018, , 1809-1818.	0.4	0

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37	Lithium-doped Cu <sub>2</sub> ZnSnS <sub>4</sub> superstrate solar cells with 5% efficiency – An alternative to thin film kesterite photovoltaics. Nano Energy, 2018, 53, 130-134.	16.0	26
38	In Situ TEM Investigation of Electron Irradiation Induced Metastable States in Lithium-Ion Battery Cathodes: Li <sub>2</sub> FeSiO <sub>4</sub> versus LiFePO <sub>4</sub> . ACS Applied Energy Materials, 2018, 1, 3180-3189.	5.1	20
39	Characterization of Lithium in Batteries with EDS and EELS. ECS Meeting Abstracts, 2018, , .	0.0	0
40	In Situ Conductive Coating Strategies for Nanocrystal-Based Li-Ion Battery Electrodes Beyond Carbonization. ECS Meeting Abstracts, 2018, , .	0.0	0
41	Application of Carbon Nanotubes Doped with Silicon As the Anode Electrode for Lithium Ion Battery. ECS Meeting Abstracts, 2018, , .	0.0	0
42	Annealing-regulated elimination of residual strain-induced structural relaxation for stable high-power Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheet anodes. Nano Energy, 2017, 32, 533-541.	16.0	29
43	Removal of antimony from concentrated solutions with focus on tripuhyte (FeSbO <sub>4</sub> ) synthesis, characterization and stability. Hydrometallurgy, 2017, 169, 263-274.	4.3	16
44	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. Nature Communications, 2017, 8, 14643.	12.8	179
45	In Operando XANES & XRD Investigation into the Rate-Dependent Transport Properties of Lithium Iron Silicate Cathodes. MRS Advances, 2017, 2, 419-424.	0.9	1
46	Nanostructural and photo-electrochemical properties of solution spin-coated Cu <sub>2</sub> ZnSnS <sub>4</sub> -TiO <sub>2</sub> nanorod forest films with an improved photovoltaic performance. Nanoscale, 2017, 9, 7650-7665.	5.6	14
47	A green process for recovery of H <sub>2</sub> SO <sub>4</sub> and Fe <sub>2</sub> O <sub>3</sub> from FeSO <sub>4</sub> ·7H <sub>2</sub> O by modeling phase equilibrium of the Fe(III)-H <sup>+</sup> -Cl <sup>-</sup> system. AIChE Journal, 2017, 63, 4549-4563.	3.6	14
48	Modeling of glycine solubility in aqueous HCl-MgCl <sub>2</sub> system and its application in phase transition of glycine by changing media and supersaturation. Journal of Crystal Growth, 2017, 467, 116-125.	1.5	11
49	Investigating arsenic speciation in the JEB Tailings Management Facility at McClean Lake, Saskatchewan using X-ray absorption spectroscopy. Chemical Geology, 2017, 466, 617-626.	3.3	10
50	Solubility of NaHCO <sub>3</sub> and NH <sub>4</sub> HCO <sub>3</sub> in the Relevant Media and Prediction of High-Pressure Phase Equilibria for the NH <sub>3</sub> -CO <sub>2</sub> -NaCl-H <sub>2</sub> O System. Journal of Chemical & Engineering Data, 2017, 62, 4401-4410.	1.9	7
51	Capacity Fade Mechanism of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanosheet Anode. Advanced Energy Materials, 2017, 7, 1601825.	19.5	67
52	Electron Dose Management for High Angle Annular Dark Field Scanning Transmission Electron Microscope Tomography of Beam Sensitive Materials. Microscopy and Microanalysis, 2016, 22, 1294-1295.	0.4	0
53	Stability of arsenate-bearing Fe(III)/Al(III) co-precipitates in the presence of sulfide as reducing agent under anoxic conditions. Chemosphere, 2016, 151, 318-323.	8.2	16
54	Process for Glycine Production by Antisolvent Crystallization Using Its Phase Equilibria in the Ethylene Glycol-H <sub>2</sub> O System. Industrial & Engineering Chemistry Research, 2016, 55, 2426-2437.	3.7	10

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55	Density functional theory insights into the structural stability and Li diffusion properties of monoclinic and orthorhombic Li <sub>2</sub> FeSiO <sub>4</sub> cathodes. Journal of Power Sources, 2016, 318, 136-145.	7.8	34
56	Nanoscale Photo-Absorbing Kesterite Grown on Anatase Mesoscopic Films by Sequential Binary Chalcogenide Solution Deposition-Exchange, Annealing, and Etching. Crystal Growth and Design, 2016, 16, 3618-3630.	3.0	9
57	Understanding the phase formation kinetics of nano-crystalline kesterite deposited on mesoscopic scaffolds via in situ multi-wavelength Raman-monitored annealing. Physical Chemistry Chemical Physics, 2016, 18, 29435-29446.	2.8	11
58	Steady-State, Scalable Production of Mesoporous Rutile and Brookite Particles and Their Use in Energy Conversion and Storage Cells. ChemNanoMat, 2016, 2, 980-988.	2.8	3
59	Li-ion storage dynamics in metastable nanostructured Li <sub>2</sub> FeSiO <sub>4</sub> cathode: Antisite-induced phase transition and lattice oxygen participation. Journal of Power Sources, 2016, 329, 355-363.	7.8	26
60	Antimony in the metallurgical industry: A review of its chemistry and environmental stabilization options. Hydrometallurgy, 2016, 164, 141-153.	4.3	105
61	Transient existence of crystalline lithium disulfide Li <sub>2</sub> S <sub>2</sub> in a lithium-sulfur battery. Journal of Power Sources, 2016, 325, 641-645.	7.8	57
62	Formation of Lithium Titanate Hydrate Nanosheets: Insight into a Two-Dimension Growth Mechanism by in Situ Raman. Crystal Growth and Design, 2016, 16, 3898-3904.	3.0	9
63	Stabilization of iron arsenate solids by encapsulation with aluminum hydroxyl gels. Journal of Chemical Technology and Biotechnology, 2016, 91, 408-415.	3.2	17
64	Continuous-reactor, pH-controlled synthesis of multifunctional mesoporous nanocrystalline anatase aggregates. Chemical Engineering Journal, 2016, 287, 398-409.	12.7	7
65	Aqueous, Screen-Printable Paste for Fabrication of Mesoporous Composite Anatase-Rutile TiO <sub>2</sub> Nanoparticle Thin Films for (Photo)electrochemical Devices. ACS Sustainable Chemistry and Engineering, 2016, 4, 2173-2181.	6.7	22
66	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO <sub>4</sub> with Ca <sup>2+</sup> . Nano Letters, 2016, 16, 2692-2697.	9.1	52
67	Spontaneous reaction between an uncharged lithium iron silicate cathode and a LiPF <sub>6</sub> -based electrolyte. Chemical Communications, 2016, 52, 190-193.	4.1	14
68	Investigation of sodium silicate-derived gels as encapsulants for hazardous materials – The case of scorodite. Journal of Hazardous Materials, 2015, 292, 108-117.	12.4	33
69	New Insight into the Atomic-Scale Bulk and Surface Structure Evolution of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Anode. Journal of the American Chemical Society, 2015, 137, 1581-1586.	13.7	106
70	Oxidation of Ferrous Sulfate Hydrolyzed Slurry – Kinetic Aspects and Impact on As(V) Removal. Industrial & Engineering Chemistry Research, 2015, 54, 1738-1747.	3.7	6
71	Engineering 3-D Li-Ion Electrodes with Enhanced Charge Storage Properties Based on Solution-Processed and Sintered Anatase Nanocrystal-Carbon Mesoporous Structures. ACS Sustainable Chemistry and Engineering, 2015, 3, 334-339.	6.7	4
72	From extractive metallurgy to materials engineering: personal teaching and research perspective. Canadian Metallurgical Quarterly, 2015, 54, 129-135.	1.2	0

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73	Stability of continuously produced Fe(II)/Fe(III)/As(V) co-precipitates under periodic exposure to reducing agents. <i>Chemosphere</i> , 2015, 138, 239-246.	8.2	16
74	Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO <sub>4</sub> . <i>Nano Energy</i> , 2015, 16, 256-267.	16.0	54
75	Rate-dependent phase transitions in Li <sub>2</sub> FeSiO <sub>4</sub> cathode nanocrystals. <i>Scientific Reports</i> , 2015, 5, 8599.	3.3	31
76	Water activity-based design of a single-stage CSTR reactive crystallization process for producing super-azeotropic HCl and well grown metastable $\pm$ -calcium sulfate hemihydrate crystals from CaCl <sub>2</sub> solution. <i>Hydrometallurgy</i> , 2015, 155, 20-28.	4.3	11
77	Growth of Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystallites on TiO <sub>2</sub> Nanorod Arrays as Novel Extremely Thin Absorber Solar Cell Structure via the Successive-Ion-Layer-Adsorption-Reaction Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22888-22897.	8.0	39
78	Enabling Green Fabrication of Li-Ion Battery Electrodes by Electrophoretic Deposition: Growth of Thick Binder-Free Mesoporous TiO <sub>2</sub> -Carbon Anode Films. <i>Journal of the Electrochemical Society</i> , 2015, 162, D3013-D3018.	2.9	19
79	Incorporation of arsenic into gypsum: Relevant to arsenic removal and immobilization process in hydrometallurgical industry. <i>Journal of Hazardous Materials</i> , 2015, 300, 272-280.	12.4	80
80	Anodized aluminum-silicon alloy counter electrode substrates for next generation solar cell applications. <i>Applied Surface Science</i> , 2015, 356, 317-324.	6.1	10
81	Continuous circuit coprecipitation of arsenic(V) with ferric iron by lime neutralization: The effect of circuit staging, co-ions and equilibration pH on long-term arsenic retention. <i>Hydrometallurgy</i> , 2015, 151, 42-50.	4.3	38
82	Organic solvent-assisted crystallization of inorganic salts from acidic media. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 686-692.	3.2	21
83	Spatial Distribution of Light Scattering and Absorption Interactions with TiO <sub>2</sub> -Nanoparticles from Monte Carlo and Generalized-Multiparticle-Mie based Simulations for Dye-Sensitized Solar Cell Analysis and Optimization. <i>Microscopy and Microanalysis</i> , 2014, 20, 548-549.	0.4	0
84	Effects of crystal habit modifiers on the morphology of calcium sulfate dihydrate grown in strong $\text{CaCl}_2\text{-HCl}$ solutions. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1523-1533.	3.2	31
85	Green-Engineered All-Substrate Mesoporous TiO <sub>2</sub> Photoanodes with Superior Light-Harvesting Structure and Performance. <i>ChemSusChem</i> , 2014, 7, 813-821.	6.8	17
86	Comparative molecular characterization of aluminum hydroxy-gels derived from chloride and sulphate salts. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 206-213.	3.2	12
87	Stirring effect in hydrothermal synthesis of nano C-LiFePO <sub>4</sub> . <i>Journal of Power Sources</i> , 2014, 266, 99-106.	7.8	52
88	Development of Titanium-Sputtered Anodized Aluminum Substrates for Dye-Sensitized Solar Cells. <i>Metallurgical and Materials Transactions E</i> , 2014, 1, 311-317.	0.5	2
89	Phase Equilibria for the Glycine-Methanol-NH <sub>4</sub> Cl-H <sub>2</sub> O System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16864-16872.	3.7	15
90	Direct imaging of layered O <sub>3</sub> - and P <sub>2</sub> -Na <sub>x</sub> Fe <sub>1/2</sub> Mn <sub>1/2</sub> O <sub>2</sub> structures at the atomic scale. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21946-21952.	2.8	50



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91	Determination and Modeling of the Solubility of $\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$ in the $\text{NaCl}$ - $\text{KCl}$ - $\text{H}_2\text{O}$ System. Journal of Chemical & Engineering Data, 2014, 59, 1264-1272.	1.9	12
92	On the complex interplay of crystallinity and surface area effects on Li-ion intercalation and pseudocapacitive storage properties of nanocrystalline anatase. Journal of Power Sources, 2014, 272, 58-67.	7.8	15
93	Precipitation behaviour of As(V) during neutralization of acidic Fe(II)-As(V) solutions in batch and continuous modes. Hydrometallurgy, 2014, 146, 40-47.	4.3	36
94	Measurement and Chemical Modeling of the Solubility of $\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$ and $\text{Na}_2\text{SiO}_3$ in Concentrated NaOH Solution from 288 to 353 K. Industrial & Engineering Chemistry Research, 2014, 53, 9949-9958.	3.7	18
95	Mesoporous Brookite Nanoplatelets with Superior Lithium-ion Intercalation Stability. Electrochimica Acta, 2014, 138, 215-223.	5.2	9
96	Transmission Electron Forward Scattered Diffraction and Low Voltage SEM/STEM Characterization of Binder-Free $\text{TiO}_2$ Electrodes. Microscopy and Microanalysis, 2014, 20, 492-493.	0.4	1
97	Electrophoretically self-assembled mixed metal oxide- $\text{TiO}_2$ nano-composite film structures for photoelectrochemical energy conversion: Probing of charge recombination and electron transport resistances. Journal of Power Sources, 2013, 240, 667-675.	7.8	17
98	Aqueous Synthesized Nanostructured $\text{Li}_4\text{Ti}_5\text{O}_{12}$ for High-Performance Lithium Ion Battery Anodes. Journal of the Electrochemical Society, 2013, 160, A3041-A3047.	2.9	19
99	Enabling aqueous electrophoretic growth of adherent nanotitania mesoporous films via intrafilm cathodic deposition of hydrous zinc oxide. Electrochimica Acta, 2013, 87, 169-179.	5.2	12
100	Size-Dependent Maximization of Upconversion Efficiency of Citrate-Stabilized $\text{I}^{2-}$ -phase $\text{NaYF}_4\text{:Yb}^{3+}, \text{Er}^{3+}$ Crystals via Annealing. ACS Applied Materials & Interfaces, 2013, 5, 11661-11667.	8.0	90
101	Annealing-induced ultra-efficient NIR-to-VIS upconversion of nano-/micro-scale $\text{I}^{\pm}$ and $\text{I}^2$ $\text{NaYF}_4\text{:Er}^{3+}, \text{Yb}^{3+}$ crystals. CrystEngComm, 2013, 15, 4739.	2.6	38
102	Influence of Impurities on Crystallization Kinetics of Calcium Sulfate Dihydrate and Hemihydrate in Strong $\text{HCl}$ - $\text{CaCl}_2$ Solutions. Industrial & Engineering Chemistry Research, 2013, 52, 6540-6549.	3.7	67
103	Thin single screen-printed bifunctional titania layer photoanodes for high performing DSSCs via a novel hybrid paste formulation and process. Journal of Materials Research, 2013, 28, 480-487.	2.6	17
104	Novel Mesoporous Nanotitania/Carbon Composite Electrodes for Electrochemical Energy Storage. ECS Transactions, 2013, 50, 37-48.	0.5	2
105	Hydrochloric Acid Regeneration via Calcium Sulfate Crystallization for Non-Ferrous Chloride Leaching Processes. , 2013, , 379-389.		0
106	Continuous Co-Precipitation Behaviour and Stability of Arsenic(V) from Fe(II,III)-Al(III)-Ni(II) Sulphate Effluent Solutions. , 2013, , 371-378.		0
107	The Rapid Measurement and Monitoring of Selenite Concentration by Turbidimetry Following its Conversion to Colloidal State by Sulfite Reduction and Acidification. Separation Science and Technology, 2012, 47, 677-683.	2.5	0
108	A novel two-step coprecipitation process using Fe(III) and Al(III) for the removal and immobilization of arsenate from acidic aqueous solution. Water Research, 2012, 46, 500-508.	11.3	57

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109	Colloidal PbS and PbSeS Quantum Dot Sensitized Solar Cells Prepared by Electrophoretic Deposition. Journal of Physical Chemistry C, 2012, 116, 16391-16397.	3.1	81
110	The crystal growth kinetics of alpha calcium sulfate hemihydrate in concentrated CaCl <sub>2</sub> •HCl solutions. Journal of Crystal Growth, 2012, 351, 9-18.	1.5	50
111	Phase transformation kinetics of calcium sulfate phases in strong CaCl <sub>2</sub> HCl solutions. Hydrometallurgy, 2012, 129-130, 126-134.	4.3	32
112	Continuous circuit coprecipitation of arsenic(V) with ferric iron by lime neutralization: Process parameter effects on arsenic removal and precipitate quality. Hydrometallurgy, 2012, 111-112, 65-72.	4.3	88
113	Enhanced surface hydroxylation of nanocrystalline anatase films improves photocurrent output and electron lifetime in dye sensitized solar cell photoanodes. Electrochimica Acta, 2012, 67, 208-215.	5.2	32
114	Stannous chloride•an effective reducing agent for the removal of selenium(IV) from acidic solution. Journal of Chemical Technology and Biotechnology, 2012, 87, 983-989.	3.2	4
115	Further Understanding of the Electronic Interactions between N719 Sensitizer and Anatase TiO <sub>2</sub> Films: A Combined X-ray Absorption and X-ray Photoelectron Spectroscopic Study. Journal of Physical Chemistry C, 2011, 115, 5692-5707.	3.1	72
116	Enhanced Performance of Dye-Sensitized Solar Cells by Utilization of an External, Bifunctional Layer Consisting of Uniform I <sup>2</sup> -NaYF <sub>4</sub> :Er <sup>3+</sup> /Yb <sup>3+</sup> Nanoplatelets. ACS Applied Materials & Interfaces, 2011, 3, 3239-3243.	8.0	126
117	The effect of copper on the precipitation of scorodite (FeAsO <sub>4</sub> •2H <sub>2</sub> O) under hydrothermal conditions: Evidence for a hydrated copper containing ferric arsenate sulfate-short lived intermediate. Journal of Colloid and Interface Science, 2011, 360, 508-518.	9.4	34
118	Raman spectroscopic study of the hydrogen and arsenate bonding environment in isostructural synthetic arsenates of the variscite group•M <sup>3+</sup> AsO <sub>4</sub> •2H <sub>2</sub> O (M <sup>3+</sup> = Fe, Al, In and Ga): implications for arsenic release in water. Journal of Raman Spectroscopy, 2011, 42, 62-71.	2.5	14
119	Hydrothermal reaction chemistry and characterization of ferric arsenate phases precipitated from Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> •As <sub>2</sub> O <sub>5</sub> •H <sub>2</sub> SO <sub>4</sub> solutions. Hydrometallurgy, 2011, 107, 74-90.	4.3	80
120	The elimination of selenium(IV) from aqueous solution by precipitation with sodium sulfide. Journal of Hazardous Materials, 2011, 185, 148-154.	12.4	73
121	Preparation of DSSC Nanotitania Thin Film Photoanodes by Electrophoretic Deposition in an Aqueous Suspension. ECS Transactions, 2011, 35, 39-52.	0.5	1
122	Vibrational spectroscopy study of hydrothermally produced scorodite (FeAsO <sub>4</sub> •2H <sub>2</sub> O), ferric arsenate subhydrate (FAsH <sub>2</sub> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (FeAsO <sub>4</sub> •2H <sub>2</sub> O) Journal of Raman Spectroscopy, 2010, 41, 212-221.	2.5	24
123	Near-Infrared Sunlight Harvesting in Dye-Sensitized Solar Cells Via the Insertion of an Upconverter•TiO <sub>2</sub> Nanocomposite Layer. Advanced Materials, 2010, 22, 4373-4377.	21.0	291
124	Scorodite encapsulation by controlled deposition of aluminum phosphate coatings. Journal of Hazardous Materials, 2010, 181, 526-534.	12.4	39
125	Raman Spectroscopy in the Hydrometallurgical and Materials Engineering World. , 2010, , .		0
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