Andrew P Shreve

List of Publications by Year
in descending order

61	2,377	186265 28	206112 48
papers	citations	h-index	g-index

62	62	62	3397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective Rejection of Fluorescence Interference in Raman Spectroscopy Using a Shifted Excitation Difference Technique. Applied Spectroscopy, 1992, 46, 707-711.	2.2	284
2	A DNA-templated fluorescent silver nanocluster with enhanced stability. Nanoscale, 2012, 4, 4107.	5.6	160
3	Energy-Transfer Modeling for the Rational Design of Multiporphyrin Light-Harvesting Arrays. Journal of Physical Chemistry B, 1998, 102, 4209-4216.	2.6	158
4	Sterically hindered aryloxide-substituted alkylaluminum compounds. Organometallics, 1988, 7, 409-416.	2.3	143
5	Formation and Stabilization of Fluorescent Gold Nanoclusters Using Small Molecules. Journal of Physical Chemistry C, 2010, 114, 15879-15882.	3.1	88
6	Phospholipid Morphologies on Photochemically Patterned Silane Monolayers. Journal of the American Chemical Society, 2005, 127, 6752-6765.	13.7	84
7	Ag K-Edge EXAFS Analysis of DNA-Templated Fluorescent Silver Nanoclusters: Insight into the Structural Origins of Emission Tuning by DNA Sequence Variations. Journal of the American Chemical Society, 2011, 133, 11837-11839.	13.7	78
8	Aggregation Effects on the Emission Spectra and Dynamics of Model Oligomers of MEH-PPV. Journal of Physical Chemistry C, 2009, 113, 18851-18862.	3.1	71
9	Electronic and Nuclear Dynamics of the Accessory Bacteriochlorophylls in Bacterial Photosynthetic Reaction Centers from Resonance Raman Intensities. Journal of Physical Chemistry B, 1997, 101, 3250-3260.	2.6	68
10	Bright two-photon emission and ultra-fast relaxation dynamics in a DNA-templated nanocluster investigated by ultra-fast spectroscopy. Nanoscale, 2012, 4, 4247.	5.6	67
11	Observation of Three Intervalenceâ€Transfer Bands for a Classâ€...IIâ€“III Mixedâ€Valence Complex of Ruthenium. Angewandte Chemie - International Edition, 2008, 47, 503-506.	13.8	60
12	Structural and Photophysical Properties of a Water-Soluble Porphyrin Associated with Polycations in Solution and Electrostatically-Assembled Ultrathin Films. Journal of Physical Chemistry B, 2000, 104, 5986-5992.	2.6	58
13	Violation of the Condon Approximation in Semiconducting Carbon Nanotubes. ACS Nano, 2011, 5, 5233-5241.	14.6	51
14	Electrochemical and Spectroscopic Characterization of the Novel Charge-Transfer Ground State in Diimine Complexes of Ytterbocene. Inorganic Chemistry, 2003, 42, 5551-5559.	4.0	45
15	Photochemical Pattern Transfer and Enhancement of Thin Film Silica Mesophases. Nano Letters, 2003, 3, 719-722.	9.1	45
16	Surfactant Removal and Silica Condensation during the Photochemical Calcination of Thin Film Silica Mesophases. Journal of Physical Chemistry B, 2005, 109, 14551-14556.	2.6	45
17	Neutron Reflectivity Study of Lipid Membranes Assembled on Ordered Nanocomposite and Nanoporous Silica Thin Films. Langmuir, 2005, 21, 2865-2870.	3.5	45
18	Infrared Spectroscopic Characterization of Lipidâ˜Alkylsiloxane Hybrid Bilayer Membranes at Oxide Substrates. Langmuir, 1999, 15, 5369-5381.	3.5	43

#	Article	IF	Citations
19	Intervalence-Resonant Raman Spectroscopy of Strongly Coupled Mixed-Valence Cluster Dimers of Ruthenium. Journal of Physical Chemistry A, 2005, 109, 9006-9012.	2.5	38
20	Evidence for Leaflet-Dependent Redistribution of Charged Molecules in Fluid Supported Phospholipid Bilayers. Langmuir, 2008, 24, 13250-13253.	3.5	35
21	Self-Assembled Light-Harvesting System from Chromophores in Lipid Vesicles. Journal of Physical Chemistry B, 2015, 119, 10231-10243.	2.6	35
22	Intervalence Involvement of Bridging Ligand Vibrations in Hexaruthenium Mixed-Valence Clusters Probed by Resonance Raman Spectroscopy. Journal of the American Chemical Society, 2003, 125, 13912-13913.	13.7	34
23	Evidence for cholera aggregation on GM1-decorated lipid bilayers. Colloids and Surfaces B: Biointerfaces, 2004, 33, 45-51.	5.0	34
24	Dependence of NO Recombination Dynamics in Horse Myoglobin on Solution Glycerol Content. Journal of Physical Chemistry B, 1999, 103, 7969-7975.	2.6	33
25	Structural dynamics and charge transfer via complexation with fullerene in large area conjugated polymer honeycomb thin filmsâ€. Chemistry of Materials, 2011, 23, 759-761.	6.7	32
26	Protecting, patterning, and scaffolding supported lipid membranes using carbohydrate glasses. Lab on A Chip, 2008, 8, 892.	6.0	29
27	Fullerene derivatives induce premature senescence: A new toxicity paradigm or novel biomedical applications. Toxicology and Applied Pharmacology, 2010, 244, 130-143.	2.8	29
28	Heme Charge-Transfer Band III Is Vibronically Coupled to the Soret Band. Journal of the American Chemical Society, 2002, 124, 7146-7155.	13.7	28
29	Formation and Dynamics of Supported Phospholipid Membranes on a Periodic Nanotextured Substrate. Langmuir, 2009, 25, 2986-2993.	3.5	28
30	Effects of Solvent Properties on the Spectroscopy and Dynamics of Alkoxy-Substituted PPV Oligomer Aggregates. Journal of Physical Chemistry B, 2012, 116, 10504-10513.	2.6	28
31	Visualizing Coreâ€“Shell Structure in Substituted PPV Oligomer Aggregates Using Fluorescence Lifetime Imaging Microscopy (FLIM). Journal of Physical Chemistry C, 2011, 115, 15607-15616.	3.1	27
32	Building a community to engineer synthetic cells and organelles from the bottom-up. ELife, 2021, 10, .	6.0	27
33	Thermochromism of a Poly(phenylene vinylene): Untangling the Roles of Polymer Aggregate and Chain Conformation. Journal of Physical Chemistry B, 2009, 113, 16110-16117.	2.6	25
34	Optical Detection of Ion-Channel-Induced Proton Transport in Supported Phospholipid Bilayers. Nano Letters, 2007, 7, 2446-2451.	9.1	23
35	Diblock Copolymer Micelles and Supported Films with Noncovalently Incorporated Chromophores: A Modular Platform for Efficient Energy Transfer. Nano Letters, 2015, 15, 2422-2428.	9.1	23
36	Line-Focused Optical Excitation of Parallel Acoustic Focused Sample Streams for High Volumetric and Analytical Rate Flow Cytometry. Analytical Chemistry, 2017, 89, 9967-9975.	6.5	23

#	Article	IF	Citations
37	Distortional Isomers of a Mixed-Valence Binuclear Cu Complex. Inorganic Chemistry, 1999, 38, 2546-2547.	4.0	22
38	Quantum Interference between the Third and Fourth Exciton States in Semiconducting Carbon Nanotubes Using Resonance Raman Spectroscopy. Physical Review Letters, 2012, 108, 117404.	7.8	20
39	Resonance Raman and X-ray Crystallographic Studies of Intertriad Metalâ^'Metal Bonds. 2. WRu and MoOs Porphyrin Dimers. Inorganic Chemistry, 1999, 38, 2093-2097.	4.0	19
40	Nonequilibrium Pattern Formation in Langmuir-Phase Assisted Assembly of Alkylsiloxane Monolayers. Journal of Physical Chemistry B, 1999, 103, 10149-10157.	2.6	17
41	Electrostatic and Conformational Effects on the Electronic Structures of Distortional Isomers of a Mixed-Valence Binuclear Cu Complex. Inorganic Chemistry, 2001, 40, 6375-6382.	4.0	16
42	Time-Resolved Infrared Studies on Two Isomeric Ruthenium(II)/Rhenium(I) Complexes Containing a Nonsymmetric Quaterpyridine Bridging Ligand. Inorganic Chemistry, 1998, 37, 2598-2601.	4.0	15
43	Resonance Raman, X-ray Crystallographic, and Magnetic Susceptibility Studies of Metalâ^'Metal-Bonded MoRu and WOs Porphyrin Dimers. 1. Evidence for an Unusual MO Diagram. Inorganic Chemistry, 1999, 38, 2085-2092.	4.0	15
44	Oil-Free Acoustofluidic Droplet Generation for Multicellular Tumor Spheroid Culture. ACS Applied Bio Materials, 2019, 2, 4097-4105.	4.6	15
45	Ultrafast Spectroscopy of the Uranium(IV) and Thorium(IV) Bis(ketimide) Complexes (C5Me5)2An[â^'Nâ•€(Ph)(CH2Ph)]2 (An = Th, U). Journal of Physical Chemistry A, 2008, 112, 7840-7847.	2.5	13
46	Exploring the Localized-to-Delocalized Boundary in Mixed-Valence Systems Using Infrared Spectroelectrochemistry. Inorganic Chemistry, 2004, 43, 2231-2233.	4.0	12
47	Characterization of infrared vibrational activity in specific totally symmetric bridging modes of mixed-valence systems near the localized-to-delocalized transition. Chemical Physics, 2006, 326, 24-32.	1.9	12
48	Tailored Microcrystal Growth: A Facile Solutionâ€Phase Synthesis of Gold Rings. Advanced Materials, 2011, 23, 4431-4434.	21.0	12
49	Centrifugal Generation of Droplet-Based 3D Cell Cultures. SLAS Technology, 2020, 25, 436-445.	1.9	12
50	Chemical Tuning of Nonlinearity Leading to Intrinsically Localized Modes in Halide-Bridged Mixed-Valence Platinum Materialsâ€. Journal of Physical Chemistry A, 2003, 107, 8198-8207.	2.5	11
51	Metabolic Photofragmentation Kinetics for a Minimal Protocell: Rate-Limiting Factors, Efficiency, and Implications for Evolution. Artificial Life, 2008, 14, 189-201.	1.3	7
52	Implementation of Time-Resolved Step-Scan Fourier Transform Infrared (FT-IR) Spectroscopy Using a kHz Repetition Rate Pump Laser. Applied Spectroscopy, 2011, 65, 535-542.	2.2	7
53	A Microsphere-Supported Lipid Bilayer Platform for DNA Reactions on a Fluid Surface. ACS Applied Materials & Interfaces, 2017, 9, 30185-30195.	8.0	6
54	Lipid Membrane Domains for the Selective Adsorption and Surface Patterning of Conjugated Polyelectrolytes. Langmuir, 2013, 29, 5214-5221.	3.5	5

#	Article	IF	Citations
55	Predictive modeling of broad wavelength light-harvesting performance in assemblies of multiple chromophores. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 105-114.	3.9	5
56	DNA-assisted photoinduced charge transfer between a cationic poly(phenylene vinylene) and a cationic fullerene. Physical Chemistry Chemical Physics, 2015, 17, 15675-15678.	2.8	4
57	Multiplexed Lipid Bilayers on Silica Microspheres for Analytical Screening Applications. Analytical Chemistry, 2017, 89, 6440-6447.	6.5	3
58	Method for measuring the unbinding energy of strongly-bound membrane-associated proteins. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2753-2762.	2.6	2
59	Raman studies of electronâ€“phonon coupling in single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3171-3175.	1.5	1
60	Single-Cell Response to the Rigidity of Semiconductor Nanomembranes on Compliant Substrates. ACS Applied Materials & Interfaces, 2020, 12, 10697-10705.	8.0	1
61	DNA Binding by an Intrinsically Disordered Elastin-like Polypeptide for Assembly of Phase Separated Nucleoprotein Coacervates. Industrial & Engineering Chemistry Research, 0, , .	3.7	1