Aaron P Esser-Kahn

List of Publications by Citations

73 papers	2,611 citations	23 h-index	50 g-index
80 ext. papers	3,005 ext. citations	10.9 avg, IF	5.15 L-index

#	Paper	IF	Citations
73	Triggered Release from Polymer Capsules. *Macromolecules*, **2011**, 44, 5539-5553	5.5	487
72	N-terminal protein modification through a biomimetic transamination reaction. *Angewandte Chemie - International Edition*, **2006**, 45, 5307-11	16.4	301
71	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. *Nature Biotechnology*, **2015**, 33, 1201-10	44.5	280
70	Three-dimensional microvascular fiber-reinforced composites. *Advanced Materials*, **2011**, 23, 3654-8	24	178
69	Programmable microcapsules from self-immolative polymers. *Journal of the American Chemical Society*, **2010**, 132, 10266-8	16.4	172
68	Metallothionein-cross-linked hydrogels for the selective removal of heavy metals from water. *Journal of the American Chemical Society*, **2008**, 130, 15820-2	16.4	84
67	Incorporation of antifreeze proteins into polymer coatings using site-selective bioconjugation. *Journal of the American Chemical Society*, **2010**, 132, 13264-9	16.4	77
66	Modification of aniline containing proteins using an oxidative coupling strategy. *Journal of the American Chemical Society*, **2006**, 128, 15558-9	16.4	69
65	Protein-cross-linked polymeric materials through site-selective bioconjugation. *Angewandte Chemie - International Edition*, **2008**, 47, 3751-4	16.4	68
64	Identification of highly reactive sequences for PLP-mediated bioconjugation using a combinatorial peptide library. *Journal of the American Chemical Society*, **2010**, 132, 16812-7	16.4	62
63	N-Terminal Protein Modification through a Biomimetic Transamination Reaction. *Angewandte Chemie*, **2006**, 118, 5433-5437	3.6	62
62	Chemical treatment of poly(lactic acid) fibers to enhance the rate of thermal depolymerization. *ACS Applied Materials & Interfaces*, **2012**, 4, 503-9	9.5	51
61	Toll-like Receptor Agonist Conjugation: A Chemical Perspective. *Bioconjugate Chemistry*, **2018**, 29, 587-603	4.3	50
60	Applications of Immunomodulatory Immune Synergies to Adjuvant Discovery and Vaccine Development. *Trends in Biotechnology*, **2019**, 37, 373-388	15.1	43
59	Modulation of Innate Immune Responses Covalently Linked TLR Agonists. *ACS Central Science*, **2015**, 1, 439-448	16.8	42
58	Directing the immune system with chemical compounds. *ACS Chemical Biology*, **2014**, 9, 1075-85	4.9	42
57	Stimulation of innate immune cells by light-activated TLR7/8 agonists. *Journal of the American Chemical Society*, **2014**, 136, 10823-5	16.4	31

56	Ultrasound Promoted Step-Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide-Alkyne "Click" Reaction. *Angewandte Chemie - International Edition*, **2018**, 57, 11208-11212	16.4	30
55	Covalently coupled immunostimulant heterodimers. *Angewandte Chemie - International Edition*, **2014**, 53, 189-92	16.4	27
54	Cancer Cell Lysate Entrapment in CaCO3 Engineered with Polymeric TLR-Agonists: Immune-Modulating Microparticles in View of Personalized Antitumor Vaccination. *Chemistry of Materials*, **2017**, 29, 4209-4217	9.6	25
53	Linked Toll-Like Receptor Triagonists Stimulate Distinct, Combination-Dependent Innate Immune Responses. *ACS Central Science*, **2019**, 5, 1137-1145	16.8	24
52	Mechanically Initiated Bulk-Scale Free-Radical Polymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 12023-12026	16.4	24
51	Immunomodulation of the NLRP3 Inflammasome through Structure-Based Activator Design and Functional Regulation via Lysosomal Rupture. *ACS Central Science*, **2018**, 4, 982-995	16.8	24
50	Photothermal release of CO2 from capture solutions using nanoparticles. *Energy and Environmental Science*, **2014**, 7, 2603-2607	35.4	18
49	Surface modification of carbon black nanoparticles enhances photothermal separation and release of CO2. *Carbon*, **2016**, 105, 126-135	10.4	18
48	Controlling the origins of inflammation with a photoactive lipopeptide immunopotentiator. *Angewandte Chemie - International Edition*, **2015**, 54, 5962-5	16.4	17
47	Bio-inspired mechanically adaptive materials through vibration-induced crosslinking. *Nature Materials*, **2021**, 20, 869-874	27	17
46	Covalent modification of cell surfaces with TLR agonists improves & directs immune stimulation. *Chemical Communications*, **2013**, 49, 9618-20	5.8	16
45	Immune Response Modulation of Conjugated Agonists with Changing Linker Length. *ACS Chemical Biology*, **2016**, 11, 3347-3352	4.9	14
44	Mitigation of Hydrophobicity-Induced Immunotoxicity by Sugar Poly(orthoesters). *Journal of the American Chemical Society*, **2019**, 141, 4510-4514	16.4	14
43	Determination of Factors Influencing the Wet Etching of Polydimethylsiloxane Using Tetra-n-butylammonium Fluoride. *Macromolecular Chemistry and Physics*, **2016**, 217, 284-291	2.6	13
42	Surface Coating of Nanoparticles Reduces Background Inflammatory Activity while Increasing Particle Uptake and Delivery. *ACS Biomaterials Science and Engineering*, **2017**, 3, 206-213	5.5	12
41	A microvascular system for chemical reactions using surface waste heat. *Angewandte Chemie - International Edition*, **2013**, 52, 13731-4	16.4	12
40	Tuning Subunit Vaccines with Novel TLR Triagonist Adjuvants to Generate Protective Immune Responses against. *Journal of Immunology*, **2020**, 204, 611-621	5.3	12
39	Increased vaccine tolerability and protection via NF-Ƀ modulation. *Science Advances*, **2020**, 6,	14.3	12

38	Transiently Thermoresponsive Acetal Polymers for Safe and Effective Administration of Amphotericin B as a Vaccine Adjuvant. *Bioconjugate Chemistry*, **2018**, 29, 748-760	6.3	12
37	Solvent Effects on the Photothermal Regeneration of CO2 in Monoethanolamine Nanofluids. *ACS Applied Materials & Interfaces*, **2015**, 7, 25851-6	9.5	11
36	Light Guided In-vivo Activation of Innate Immune Cells with Photocaged TLR 2/6 Agonist. *Scientific Reports*, **2017**, 7, 8074	4.9	11
35	The Effect of Membrane Thickness on a Microvascular Gas Exchange Unit. *Advanced Functional Materials*, **2013**, 23, 100-106	15.6	11
34	Photothermal Nanoparticle Initiation Enables Radical Polymerization and Yields Unique, Uniform Microfibers with Broad Spectrum Light. *ACS Applied Materials & Interfaces*, **2017**, 9, 39034-39039	9.5	9
33	Ultrasound Promoted Step-Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide□Alkyne □Click□Reaction. *Angewandte Chemie*, **2018**, 130, 11378-11382	3.6	9
32	Cooperative CO Absorption Isotherms from a Bifunctional Guanidine and Bifunctional Alcohol. *ACS Central Science*, **2017**, 3, 1271-1275	16.8	9
31	Mechanically Initiated Bulk-Scale Free-Radical Polymerization. *Angewandte Chemie*, **2019**, 131, 12151-12154	3.6	8
30	A Light-Controlled TLR4 Agonist and Selectable Activation of Cell Subpopulations. *ChemBioChem*, **2015**, 16, 1744-8	3.8	8
29	100th Anniversary of Macromolecular Science Viewpoint: Piezoelectrically Mediated Mechanochemical Reactions for Adaptive Materials. *ACS Macro Letters*, **2020**, 9, 1237-1248	6.6	8
28	A Photoactivatable Innate Immune Receptor for Optogenetic Inflammation. *ACS Chemical Biology*, **2017**, 12, 347-350	4.9	7
27	Bio-Inspired Morphogenesis Using Microvascular Networks and Reaction□Diffusion. *Chemistry of Materials*, **2015**, 27, 4871-4876	9.6	7
26	Controlling the Origins of Inflammation with a Photoactive Lipopeptide Immunopotentiator. *Angewandte Chemie*, **2015**, 127, 6060-6063	3.6	6
25	Bio-inspired counter-current multiplier for enrichment of solutes. *Nature Communications*, **2018**, 9, 736	17.4	6
24	Small Molecule NF-□B Inhibitors as Immune Potentiators for Enhancement of Vaccine Adjuvants. *Frontiers in Immunology*, **2020**, 11, 511513	8.4	6
23	Covalently Coupled Immunostimulant Heterodimers. *Angewandte Chemie*, **2014**, 126, 193-196	3.6	5
22	Process of making three-dimensional microstructures using vaporization of a sacrificial component. *Journal of Visualized Experiments*, **2013**, e50459	1.6	5
21	From Glucose to Polymers: A Continuous Chemoenzymatic Process. *Angewandte Chemie - International Edition*, **2020**, 59, 18943-18947	16.4	5

20	Subunit Vaccines Using TLR Triagonist Combination Adjuvants Provide Protection Against While Minimizing Reactogenic Responses. *Frontiers in Immunology*, **2021**, 12, 653092	8.4	5
19	and Analyses of the Effects of Source, Length, and Charge on the Cytotoxicity and Immunocompatibility of Cellulose Nanocrystals. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1450-1461	5.5	5
18	Controllable Frontal Polymerization and Spontaneous Patterning Enabled by Phase-Changing Particles. *Small*, **2021**, 17, e2102217	11	4
17	Photon upconversion for the enhancement of microfluidic photochemical synthesis.. *RSC Advances*, **2019**, 9, 26172-26175	3.7	3
16	Bio-inspired microvascular exchangers employing circular packing synthetic rete mirabile. *Materials Horizons*, **2014**, 1, 602-607	14.4	3
15	A Microvascular System for Chemical Reactions Using Surface Waste Heat. *Angewandte Chemie*, **2013**, 125, 13976-13979	3.6	2
14	From Glucose to Polymers: A Continuous Chemoenzymatic Process. *Angewandte Chemie*, **2020**, 132, 19105-19109	3.6	2
13	Pathogen-like Nanoassemblies of Covalently Linked TLR Agonists Enhance CD8 and NK Cell-Mediated Antitumor Immunity. *ACS Central Science*, **2020**, 6, 2071-2078	16.8	2
12	Mechanically Promoted Synthesis of Polymer Organogels via Disulfide Bond Cross-Linking.. *ACS Macro Letters*, **2021**, 10, 799-804	6.6	2
11	Receptor-Ligand Kinetics Influence the Mechanism of Action of Covalently Linked TLR Ligands. *ACS Chemical Biology*, **2021**, 16, 380-388	4.9	2
10	Manipulating Frontal Polymerization and Instabilities with Phase-Changing Microparticles. *Journal of Physical Chemistry B*, **2021**, 125, 7537-7545	3.4	2
9	Determining Whether Agonist Density or Agonist Number Is More Important for Immune Activation via Micoparticle Based Assay. *Frontiers in Immunology*, **2020**, 11, 642	8.4	1
8	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). *Advanced Materials*, **2011**, 23, 3653-3653	24	1
7	Site-specific antigen-adjuvant conjugation using cell-free protein synthesis enhances antigen presentation and CD8 T-cell response. *Scientific Reports*, **2021**, 11, 6267	4.9	1
6	Demonstration of the photothermal catalysis of the Sabatier reaction using nickel nanoparticles and solar spectrum light.. *RSC Advances*, **2021**, 11, 8394-8397	3.7	1
5	Correlating the structure and reactivity of a contact allergen, DNCB, and its analogs to sensitization potential. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 2985-2990	3.4	0
4	A synthetic pathogen mimetic molecule induces a highly amplified synergistic immune response activation of multiple signaling pathways. *Chemical Science*, **2021**, 12, 6646-6651	9.4	0
3	Robust tolerogenic dendritic cells via push/pull pairing of toll-like-receptor agonists and immunomodulators reduces EAE. *Biomaterials*, **2022**, 121571	15.6	0

2	Structural Remodeling of Polymeric Material via Diffusion Controlled Polymerization and Chain Scission. *Chemistry of Materials*, **2018**, 30, 8126-8133	9.6
1	Improving the Adjuvanticity of Small Molecule Immune Potentiators Using Covalently Linked NF-B Modulators. *ACS Medicinal Chemistry Letters*, **2021**, 12, 1441-1448	4.3