

# Aaron P Esser-Kahn

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Robust tolerogenic dendritic cells via push/pull pairing of toll-like-receptor agonists and immunomodulators reduces EAE. <i>Biomaterials</i> , <b>2022</b> , 121571	15.6	0
72	Subunit Vaccines Using TLR Triagonist Combination Adjuvants Provide Protection Against While Minimizing Reactogenic Responses. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 653092	8.4	5
71	and Analyses of the Effects of Source, Length, and Charge on the Cytotoxicity and Immunocompatibility of Cellulose Nanocrystals. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1450-1461	5.461	5
70	Site-specific antigen-adjuvant conjugation using cell-free protein synthesis enhances antigen presentation and CD8 T-cell response. <i>Scientific Reports</i> , <b>2021</b> , 11, 6267	4.9	1
69	Mechanically Promoted Synthesis of Polymer Organogels via Disulfide Bond Cross-Linking.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 799-804	6.6	2
68	Demonstration of the photothermal catalysis of the Sabatier reaction using nickel nanoparticles and solar spectrum light.. <i>RSC Advances</i> , <b>2021</b> , 11, 8394-8397	3.7	1
67	A synthetic pathogen mimetic molecule induces a highly amplified synergistic immune response activation of multiple signaling pathways. <i>Chemical Science</i> , <b>2021</b> , 12, 6646-6651	9.4	0
66	Receptor-Ligand Kinetics Influence the Mechanism of Action of Covalently Linked TLR Ligands. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 380-388	4.9	2
65	Bio-inspired mechanically adaptive materials through vibration-induced crosslinking. <i>Nature Materials</i> , <b>2021</b> , 20, 869-874	27	17
64	Manipulating Frontal Polymerization and Instabilities with Phase-Changing Microparticles. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 7537-7545	3.4	2
63	Improving the Adjuvanticity of Small Molecule Immune Potentiators Using Covalently Linked NF- $\kappa$ B Modulators. <i>ACS Medicinal Chemistry Letters</i> , <b>2021</b> , 12, 1441-1448	4.3	
62	Controllable Frontal Polymerization and Spontaneous Patterning Enabled by Phase-Changing Particles. <i>Small</i> , <b>2021</b> , 17, e2102217	11	4
61	Determining Whether Agonist Density or Agonist Number Is More Important for Immune Activation via Micoparticle Based Assay. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 642	8.4	1
60	Tuning Subunit Vaccines with Novel TLR Triagonist Adjuvants to Generate Protective Immune Responses against. <i>Journal of Immunology</i> , <b>2020</b> , 204, 611-621	5.3	12
59	From Glucose to Polymers: A Continuous Chemoenzymatic Process. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18943-18947	16.4	5
58	From Glucose to Polymers: A Continuous Chemoenzymatic Process. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19105-19109	16.4	5
57	Pathogen-like Nanoassemblies of Covalently Linked TLR Agonists Enhance CD8 and NK Cell-Mediated Antitumor Immunity. <i>ACS Central Science</i> , <b>2020</b> , 6, 2071-2078	16.8	2

56	Small Molecule NF- $\kappa$ B Inhibitors as Immune Potentiators for Enhancement of Vaccine Adjuvants. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 511513	8.4	6
55	Increased vaccine tolerability and protection via NF- $\kappa$ B modulation. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	12
54	100th Anniversary of Macromolecular Science Viewpoint: Piezoelectrically Mediated Mechanochemical Reactions for Adaptive Materials. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1237-1248	6.6	8
53	Correlating the structure and reactivity of a contact allergen, DNCB, and its analogs to sensitization potential. <i>Bioorganic and Medicinal Chemistry</i> , <b>2019</b> , 27, 2985-2990	3.4	0
52	Photon upconversion for the enhancement of microfluidic photochemical synthesis.. <i>RSC Advances</i> , <b>2019</b> , 9, 26172-26175	3.7	3
51	Linked Toll-Like Receptor Triagonists Stimulate Distinct, Combination-Dependent Innate Immune Responses. <i>ACS Central Science</i> , <b>2019</b> , 5, 1137-1145	16.8	24
50	Mechanically Initiated Bulk-Scale Free-Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12023-12026	16.4	24
49	Mechanically Initiated Bulk-Scale Free-Radical Polymerization. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12151-12154	15.4	8
48	Mitigation of Hydrophobicity-Induced Immunotoxicity by Sugar Poly(orthoesters). <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4510-4514	16.4	14
47	Applications of Immunomodulatory Immune Synergies to Adjuvant Discovery and Vaccine Development. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 373-388	15.1	43
46	Bio-inspired counter-current multiplier for enrichment of solutes. <i>Nature Communications</i> , <b>2018</b> , 9, 736	17.4	6
45	Toll-like Receptor Agonist Conjugation: A Chemical Perspective. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 587-603	16.3	50
44	Ultrasound Promoted Step-Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide-Alkyne Click Reaction. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11378-11382	3.6	9
43	Ultrasound Promoted Step-Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide-Alkyne "Click" Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11208-11212	16.4	30
42	Transiently Thermo-responsive Acetal Polymers for Safe and Effective Administration of Amphotericin B as a Vaccine Adjuvant. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 748-760	6.3	12
41	Structural Remodeling of Polymeric Material via Diffusion Controlled Polymerization and Chain Scission. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8126-8133	9.6	
40	Immunomodulation of the NLRP3 Inflammasome through Structure-Based Activator Design and Functional Regulation via Lysosomal Rupture. <i>ACS Central Science</i> , <b>2018</b> , 4, 982-995	16.8	24
39	Cancer Cell Lysate Entrapment in CaCO <sub>3</sub> Engineered with Polymeric TLR-Agonists: Immune-Modulating Microparticles in View of Personalized Antitumor Vaccination. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4209-4217	9.6	25

38	A Photoactivatable Innate Immune Receptor for Optogenetic Inflammation. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 347-350	4.9	7
37	Surface Coating of Nanoparticles Reduces Background Inflammatory Activity while Increasing Particle Uptake and Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 206-213	5.5	12
36	Photothermal Nanoparticle Initiation Enables Radical Polymerization and Yields Unique, Uniform Microfibers with Broad Spectrum Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39034-39039	9.5	9
35	Light Guided In-vivo Activation of Innate Immune Cells with Photocaged TLR 2/6 Agonist. <i>Scientific Reports</i> , <b>2017</b> , 7, 8074	4.9	11
34	Cooperative CO Absorption Isotherms from a Bifunctional Guanidine and Bifunctional Alcohol. <i>ACS Central Science</i> , <b>2017</b> , 3, 1271-1275	16.8	9
33	Immune Response Modulation of Conjugated Agonists with Changing Linker Length. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 3347-3352	4.9	14
32	Determination of Factors Influencing the Wet Etching of Polydimethylsiloxane Using Tetra-n-butylammonium Fluoride. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 284-291	2.6	13
31	Surface modification of carbon black nanoparticles enhances photothermal separation and release of CO <sub>2</sub> . <i>Carbon</i> , <b>2016</b> , 105, 126-135	10.4	18
30	Bio-Inspired Morphogenesis Using Microvascular Networks and Reaction-Diffusion. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4871-4876	9.6	7
29	Controlling the Origins of Inflammation with a Photoactive Lipopeptide Immunopotentiator. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6060-6063	3.6	6
28	Solvent Effects on the Photothermal Regeneration of CO <sub>2</sub> in Monoethanolamine Nanofluids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25851-6	9.5	11
27	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1201-10	44.5	280
26	Modulation of Innate Immune Responses Covalently Linked TLR Agonists. <i>ACS Central Science</i> , <b>2015</b> , 1, 439-448	16.8	42
25	A Light-Controlled TLR4 Agonist and Selectable Activation of Cell Subpopulations. <i>ChemBioChem</i> , <b>2015</b> , 16, 1744-8	3.8	8
24	Controlling the origins of inflammation with a photoactive lipopeptide immunopotentiator. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5962-5	16.4	17
23	Directing the immune system with chemical compounds. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 1075-85	4.9	42
22	Bio-inspired microvascular exchangers employing circular packing in synthetic rete mirabile. <i>Materials Horizons</i> , <b>2014</b> , 1, 602-607	14.4	3
21	Stimulation of innate immune cells by light-activated TLR7/8 agonists. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10823-5	16.4	31

20	Covalently coupled immunostimulant heterodimers. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 189-92	16.4	27
19	Covalently Coupled Immunostimulant Heterodimers. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 193-196	3.6	5
18	Photothermal release of CO <sub>2</sub> from capture solutions using nanoparticles. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2603-2607	35.4	18
17	Covalent modification of cell surfaces with TLR agonists improves & directs immune stimulation. <i>Chemical Communications</i> , <b>2013</b> , 49, 9618-20	5.8	16
16	The Effect of Membrane Thickness on a Microvascular Gas Exchange Unit. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 100-106	15.6	11
15	Process of making three-dimensional microstructures using vaporization of a sacrificial component. <i>Journal of Visualized Experiments</i> , <b>2013</b> , e50459	1.6	5
14	A Microvascular System for Chemical Reactions Using Surface Waste Heat. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13976-13979	3.6	2
13	A microvascular system for chemical reactions using surface waste heat. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13731-4	16.4	12
12	Chemical treatment of poly(lactic acid) fibers to enhance the rate of thermal depolymerization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 503-9	9.5	51
11	Triggered Release from Polymer Capsules. <i>Macromolecules</i> , <b>2011</b> , 44, 5539-5553	5.5	487
10	Three-dimensional microvascular fiber-reinforced composites. <i>Advanced Materials</i> , <b>2011</b> , 23, 3654-8	24	178
9	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 3653-3653	24	1
8	Identification of highly reactive sequences for PLP-mediated bioconjugation using a combinatorial peptide library. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16812-7	16.4	62
7	Incorporation of antifreeze proteins into polymer coatings using site-selective bioconjugation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13264-9	16.4	77
6	Programmable microcapsules from self-immolative polymers. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10266-8	16.4	172
5	Metallothionein-cross-linked hydrogels for the selective removal of heavy metals from water. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15820-2	16.4	84
4	Protein-cross-linked polymeric materials through site-selective bioconjugation. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3751-4	16.4	68
3	N-terminal protein modification through a biomimetic transamination reaction. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 5307-11	16.4	301

- 2 N-Terminal Protein Modification through a Biomimetic Transamination Reaction. *Angewandte Chemie*, **2006**, 118, 5433-5437 3.6 62
- 1 Modification of aniline containing proteins using an oxidative coupling strategy. *Journal of the American Chemical Society*, **2006**, 128, 15558-9 16.4 69