

Aravind Asok

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Smooth varieties up to \mathbb{A}^1 -homotopy and algebraic h-cobordisms. <i>Advances in Mathematics</i> , 2011, 227, 1990-2058.	1.1	42
2	Affine representability results in \mathbb{A}^1 -homotopy theory, I: Vector bundles. <i>Duke Mathematical Journal</i> , 2017, 166, .	1.5	32
3	Splitting vector bundles outside the stable range and \mathbb{A}^1 -homotopy sheaves of punctured affine spaces. <i>Journal of the American Mathematical Society</i> , 2015, 28, 1031-1062.	3.9	30
4	Algebraic vector bundles on spheres. <i>Journal of Topology</i> , 2014, 7, 894-926.	0.5	27
5	Affine representability results in \mathbb{A}^1 -homotopy theory, II : Principal bundles and homogeneous spaces. <i>Geometry and Topology</i> , 2018, 22, 1181-1225.	1.3	26
6	A cohomological classification of vector bundles on smooth affine threefolds. <i>Duke Mathematical Journal</i> , 2014, 163, .	1.5	25
7	Vector bundles on contractible smooth schemes. <i>Duke Mathematical Journal</i> , 2008, 143, .	1.5	20
8	\mathbb{A}^1 -homotopy groups, excision, and solvable quotients. <i>Advances in Mathematics</i> , 2009, 221, 1144-1190.	1.1	18
9	An explicit KO -degree map and applications. <i>Journal of Topology</i> , 2017, 10, 268-300.	0.5	13
10	Yang-Mills theory and Tamagawa numbers: the fascination of unexpected links in mathematics. <i>Bulletin of the London Mathematical Society</i> , 2008, 40, 533-567.	0.8	10
11	Rationality problems and conjectures of Milnor and Bloch-Kato. <i>Compositio Mathematica</i> , 2013, 149, 1312-1326.	0.8	10
12	Smooth Models of Motivic Spheres and the Clutching Construction. <i>International Mathematics Research Notices</i> , 0, , rrw065.	1.0	8
13	The simplicial suspension sequence in \mathbb{A}^1 -homotopy. <i>Geometry and Topology</i> , 2017, 21, 2093-2160.	1.3	8
14	Splitting vector bundles and \mathbb{A}^1 -fundamental groups of higher-dimensional varieties. <i>Journal of Topology</i> , 2013, 6, 311-348.	0.5	7
15	Affine representability results in \mathbb{A}^1 -homotopy theory III: Finite fields and complements. <i>Algebraic Geometry</i> , 0, , 634-644.	1.0	7
16	Birational invariants and \mathbb{A}^1 -connectedness. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2013, .	0.9	6
17	Stable \mathbb{A}^1 -homotopy and \mathbb{A}^1 -equivalence. <i>Journal of Pure and Applied Algebra</i> , 2011, 215, 2469-2472.	0.6	5
18	Motives of some acyclic varieties. <i>Homology, Homotopy and Applications</i> , 2011, 13, 329-335.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Generically split octonion algebras and $\mathbb{Z}/2$ -homotopy theory. <i>Algebra and Number Theory</i> , 2019, 13, 695-747.	0.6	4
20	Motivic spheres and the image of the Suslin-Hurewicz map. <i>Inventiones Mathematicae</i> , 2020, 219, 39-73.	2.5	4
21	Localization and nilpotent spaces in $\mathbb{Z}/2$ -homotopy theory. <i>Compositio Mathematica</i> , 2022, 158, 654-720.	0.8	1
22	Affine representability of quadrics revisited. <i>Journal of Algebra</i> , 2022, 608, 37-51.	0.7	1
23	Stably $\mathbb{Z}/2$ -homotopy invariant varieties and universal CHO. <i>Journal of Pure and Applied Algebra</i> , 2017, 221, 1497-1506.	0.6	0