

Akihiko Sekizawa

List of Publications by Year in descending order

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115
papers

3,714
citations

109137

35
h-index

149479

56
g-index

117
all docs

117
docs citations

117
times ranked

2798
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for obstetrical practice in Japan: Japanese Society of Obstetrics and Gynecology (JSGO) and Japanese Association of Obstetricians and Gynecologists (JAOG) 2014 edition. <i>Journal of Obstetrics and Gynaecology Research</i> , 2014, 40, 1469-1499.	0.6	307
2	Prenatal DNA diagnosis of a single-gene disorder from maternal plasma. <i>Lancet</i> , 2000, 356, 1170.	6.3	238
3	Increased Cell-free Fetal DNA in Plasma of Two Women with Invasive Placenta. <i>Clinical Chemistry</i> , 2002, 48, 353-354.	1.5	122
4	Accuracy of Fetal Gender Determination by Analysis of DNA in Maternal Plasma. <i>Clinical Chemistry</i> , 2001, 47, 1856-1858.	1.5	120
5	Cell-free fetal DNA in the plasma of pregnant women with severe fetal growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2003, 188, 480-484.	0.7	116
6	Apoptosis in fetal nucleated erythrocytes circulating in maternal blood. <i>Prenatal Diagnosis</i> , 2000, 20, 886-889.	1.1	98
7	p53 mutations and overexpression affect prognosis of ovarian endometrioid cancer but not clear cell cancer. <i>Gynecologic Oncology</i> , 2003, 88, 318-325.	0.6	97
8	Gene expression in chorionic villous samples at 11 weeks' gestation from women destined to develop preeclampsia. <i>Prenatal Diagnosis</i> , 2008, 28, 956-961.	1.1	87
9	Cell-free Fetal DNA Is Increased in Plasma of Women with Hyperemesis Gravidarum. <i>Clinical Chemistry</i> , 2001, 47, 2164-2165.	1.5	83
10	Prenatal diagnosis of the fetal RHD blood type using a single fetal nucleated erythrocyte from maternal blood. <i>Obstetrics and Gynecology</i> , 1996, 87, 501-505.	1.2	75
11	Prospective evaluation of screening performance of first-trimester prediction models for preterm preeclampsia in an Asian population. <i>American Journal of Obstetrics and Gynecology</i> , 2019, 221, 650.e1-650.e16.	0.7	73
12	Cell-free mRNA concentrations of CRH, PLAC1, and selectin-P are increased in the plasma of pregnant women with preeclampsia. <i>Prenatal Diagnosis</i> , 2007, 27, 772-777.	1.1	66
13	PP13 mRNA Expression in Trophoblasts From Preeclamptic Placentas. <i>Reproductive Sciences</i> , 2009, 16, 408-413.	1.1	63
14	Fetal DNA in maternal plasma as a screening variable for preeclampsia. A preliminary nonparametric analysis of detection rate in low-risk nonsymptomatic patients. <i>Prenatal Diagnosis</i> , 2004, 24, 83-86.	1.1	59
15	Nationwide demonstration project of next-generation sequencing of cell-free DNA in maternal plasma in Japan: 1-year experience. <i>Prenatal Diagnosis</i> , 2015, 35, 331-336.	1.1	59
16	Fetal cell-free DNA fraction in maternal plasma is affected by fetal trisomy. <i>Journal of Human Genetics</i> , 2016, 61, 647-652.	1.1	59
17	Detection of Cardiac Structural Abnormalities in Fetal Ultrasound Videos Using Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 371.	1.3	59
18	Total cell-free DNA (β -globin gene) distribution in maternal plasma at the second trimester: a new prospective for preeclampsia screening. <i>Prenatal Diagnosis</i> , 2004, 24, 722-726.	1.1	57

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19	Cell-Free mRNA Concentrations of Plasminogen Activator Inhibitor-1 and Tissue-Type Plasminogen Activator Are Increased in the Plasma of Pregnant Women with Preeclampsia. <i>Clinical Chemistry</i> , 2007, 53, 399-404.	1.5	54
20	Within-Host Variations of Human Papillomavirus Reveal APOBEC Signature Mutagenesis in the Viral Genome. <i>Journal of Virology</i> , 2018, 92, .	1.5	52
21	Evaluation of bidirectional transfer of plasma DNA through placenta. <i>Human Genetics</i> , 2003, 113, 307-310.	1.8	51
22	K-ras mutation may promote carcinogenesis of endometriosis leading to ovarian clear cell carcinoma. <i>Medical Electron Microscopy: Official Journal of the Clinical Electron Microscopy Society of Japan</i> , 2004, 37, 188-92.	1.8	50
23	Relationship between Severity of Hyperemesis Gravidarum and Fetal DNA Concentration in Maternal Plasma. <i>Clinical Chemistry</i> , 2003, 49, 1667-1669.	1.5	48
24	Fragmentation of cell-free fetal DNA in plasma and urine of pregnant women. <i>Prenatal Diagnosis</i> , 2005, 25, 604-607.	1.1	48
25	Prediction of preeclampsia by analysis of cell-free messenger RNA in maternal plasma. <i>American Journal of Obstetrics and Gynecology</i> , 2009, 200, 386.e1-386.e7.	0.7	48
26	Quantitative distribution of a panel of circulating mRNA in preeclampsia versus controls. <i>Prenatal Diagnosis</i> , 2006, 26, 1115-1120.	1.1	47
27	Performance of messenger RNAs circulating in maternal blood in the prediction of preeclampsia at 10-14 weeks. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 203, 575.e1-575.e7.	0.7	45
28	Image Segmentation of the Ventricular Septum in Fetal Cardiac Ultrasound Videos Based on Deep Learning Using Time-Series Information. <i>Biomolecules</i> , 2020, 10, 1526.	1.8	45
29	The Role of p53 Mutation in the Carcinomas Arising from Endometriosis. <i>International Journal of Gynecological Pathology</i> , 2007, 26, 345-351.	0.9	43
30	Performance of a panel of maternal serum markers in predicting preeclampsia at 11-15 weeks' gestation. <i>Prenatal Diagnosis</i> , 2007, 27, 1005-1010.	1.1	43
31	Comparison of fetal cell recovery from maternal blood using a high density gradient for the initial separation step: 1.090 versus 1.119 g/ml. , 2000, 20, 281-286.		40
32	Cellular mRNA expressions of anti-oxidant factors in the blood of preeclamptic women. <i>Prenatal Diagnosis</i> , 2009, 29, 691-696.	1.1	40
33	Attitudes toward non-invasive prenatal diagnosis among pregnant women and health professionals in Japan. <i>Prenatal Diagnosis</i> , 2012, 32, 674-679.	1.1	40
34	Current status of non-invasive prenatal testing in Japan. <i>Journal of Obstetrics and Gynaecology Research</i> , 2017, 43, 1245-1255.	0.6	40
35	Female fetal cells in maternal blood: use of DNA polymorphisms to prove origin. <i>Human Genetics</i> , 2000, 107, 28-32.	1.8	38
36	Improvement of Fetal Cell Recovery from Maternal Blood: Suitable Density Gradient for FACS Separation. <i>Fetal Diagnosis and Therapy</i> , 1999, 14, 229-233.	0.6	37

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37	Î²-globin DNA in maternal plasma as a molecular marker of pre-eclampsia. <i>Prenatal Diagnosis</i> , 2004, 24, 697-700.	1.1	36
38	Placenta Increta: Postpartum Monitoring of Plasma Cell-free Fetal DNA. <i>Clinical Chemistry</i> , 2003, 49, 1540-1541.	1.5	34
39	Prenatal diagnosis of ornithine transcarbamylase deficiency by using a single nucleated erythrocyte from maternal blood. <i>Human Genetics</i> , 1998, 102, 611-615.	1.8	33
40	Placenta-Derived, Cellular Messenger RNA Expression in the Maternal Blood of Preeclamptic Women. <i>Obstetrics and Gynecology</i> , 2007, 110, 1130-1136.	1.2	33
41	Evaluation of physiological alterations of the placenta through analysis of cell-free messenger ribonucleic acid concentrations of angiogenic factors. <i>American Journal of Obstetrics and Gynecology</i> , 2008, 198, 124.e1-124.e7.	0.7	32
42	Fetal cell recycling: Diagnosis of gender and RhD genotype in the same fetal cell retrieved from maternal blood. <i>American Journal of Obstetrics and Gynecology</i> , 1999, 181, 1237-1242.	0.7	31
43	Expression of Angiogenesis-Related Genes in the Cellular Component of the Blood of Preeclamptic Women. <i>Reproductive Sciences</i> , 2009, 16, 857-864.	1.1	31
44	Increased cell-free fetal DNA in plasma of two women with invasive placenta. <i>Clinical Chemistry</i> , 2002, 48, 353-4.	1.5	30
45	Proteinuria and Hypertension Are Independent Factors Affecting Fetal DNA Values: A Retrospective Analysis of Affected and Unaffected Patients. <i>Clinical Chemistry</i> , 2004, 50, 221-224.	1.5	29
46	Cell-free fetal DNA(SRY locus) concentration in maternal plasma is directly correlated to the time elapsed from the onset of preeclampsia to the collection of blood. <i>Prenatal Diagnosis</i> , 2004, 24, 293-297.	1.1	29
47	Recent advances in noninvasive prenatal DNA diagnosis through analysis of maternal blood. <i>Journal of Obstetrics and Gynaecology Research</i> , 2007, 33, 747-764.	0.6	29
48	Model-Agnostic Method for Thoracic Wall Segmentation in Fetal Ultrasound Videos. <i>Biomolecules</i> , 2020, 10, 1691.	1.8	28
49	PP13 mRNA expression in the cellular component of maternal blood as a marker for preeclampsia. <i>Prenatal Diagnosis</i> , 2009, 29, 1231-1236.	1.1	27
50	Classification of factors involved in nonreportable results of noninvasive prenatal testing (NIPT) and prediction of success rate of second NIPT. <i>Prenatal Diagnosis</i> , 2019, 39, 100-106.	1.1	27
51	Testing normality of fetal DNA concentration in maternal plasma at 10-12 completed weeks' gestation: a preliminary approach to a new marker for genetic screening. <i>Prenatal Diagnosis</i> , 2002, 22, 148-152.	1.1	26
52	Enrichment of NRBC in maternal blood: a more feasible method for noninvasive prenatal diagnosis. <i>Prenatal Diagnosis</i> , 2006, 26, 545-547.	1.1	25
53	Lower Maternal PLAC1 mRNA in Pregnancies Complicated with Vaginal Bleeding (Threatened Abortion) Tj ETQq1 1 0,784314 rgBT /Over	1.5	24
54	Gene expression in chorionic villous samples at 11 weeks of gestation in women who develop preeclampsia later in pregnancy: implications for screening. <i>Prenatal Diagnosis</i> , 2009, 29, 1038-1044.	1.1	24

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55	Malignant transformation of endometriosis: application of laser microdissection for analysis of genetic alterations according to pathological changes. <i>Medical Electron Microscopy: Official Journal of the Clinical Electron Microscopy Society of Japan</i> , 2004, 37, 97-100.	1.8	23
56	Safety Evaluation of Tadalafil Treatment for Fetuses with Early-Onset Growth Restriction (TADAFER): Results from the Phase II Trial. <i>Journal of Clinical Medicine</i> , 2019, 8, 856.	1.0	23
57	Fetal cell-free DNA fraction in maternal plasma for the prediction of hypertensive disorders of pregnancy. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2018, 224, 165-169.	0.5	22
58	The use of balloons for uterine cervical ripening is associated with an increased risk of umbilical cord prolapse: population based questionnaire survey in Japan. <i>BMC Pregnancy and Childbirth</i> , 2015, 15, 4.	0.9	21
59	Massively parallel sequencing of cell-free DNA in plasma for detecting gynaecological tumour-associated copy number alteration. <i>Scientific Reports</i> , 2018, 8, 11205.	1.6	21
60	Shadow Estimation for Ultrasound Images Using Auto-Encoding Structures and Synthetic Shadows. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1127.	1.3	21
61	Medical Professional Enhancement Using Explainable Artificial Intelligence in Fetal Cardiac Ultrasound Screening. <i>Biomedicines</i> , 2022, 10, 551.	1.4	21
62	Disappearance of Steroid Hormone Dependency During Malignant Transformation of Ovarian Clear Cell Cancer. <i>International Journal of Gynecological Pathology</i> , 2005, 24, 369-376.	0.9	20
63	Retrospective details of false-positive and false-negative results in non-invasive prenatal testing for fetal trisomies 21, 18 and 13. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2021, 256, 75-81.	0.5	20
64	3.BETA-Hydroxysteroid Dehydrogenase Activity in Human Osteoblast-Like Cells.. <i>Endocrine Journal</i> , 1997, 44, 847-853.	0.7	19
65	A survey on awareness of genetic counseling for non-invasive prenatal testing: the first year experience in Japan. <i>Journal of Human Genetics</i> , 2016, 61, 995-1001.	1.1	19
66	Fate of Fetal Nucleated Erythrocytes Circulating in Maternal Blood: Apoptosis Is Induced by Maternal Oxygen Concentration. <i>Clinical Chemistry</i> , 2002, 48, 1618-1620.	1.5	18
67	Development of noninvasive fetal DNA diagnosis from nucleated erythrocytes circulating in maternal blood. <i>Prenatal Diagnosis</i> , 2007, 27, 846-848.	1.1	18
68	Rapid Clearance of mRNA for PLAC1 Gene in Maternal Blood after Delivery. <i>Fetal Diagnosis and Therapy</i> , 2005, 20, 27-30.	0.6	15
69	Clinical Potential for Noninvasive Prenatal Diagnosis Through Detection of Fetal Cells in Maternal Blood. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2006, 45, 10-20.	0.5	15
70	Physiological Changes in the Pattern of Placental Gene Expression Early in the First Trimester. <i>Reproductive Sciences</i> , 2013, 20, 710-714.	1.1	15
71	Chromosome abnormalities diagnosed in utero: a Japanese study of 28,983 amniotic fluid specimens collected before 22 weeks gestations. <i>Journal of Human Genetics</i> , 2015, 60, 133-137.	1.1	15
72	Factors affecting parental decisions to terminate pregnancy in the presence of chromosome abnormalities: a Japanese multicenter study. <i>Prenatal Diagnosis</i> , 2016, 36, 1121-1126.	1.1	14

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73	Obstetric risk factors for umbilical cord prolapse: a nationwide population-based study in Japan. <i>Archives of Gynecology and Obstetrics</i> , 2016, 294, 467-472.	0.8	14
74	Clinical risk factors for poor neonatal outcomes in umbilical cord prolapse. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 1652-1656.	0.7	14
75	Maternal Smoking and Placental Expression of a Panel of Genes Related to Angiogenesis and Oxidative Stress in Early Pregnancy. <i>Fetal Diagnosis and Therapy</i> , 2014, 35, 289-295.	0.6	13
76	Female fetal cells in maternal blood: use of DNA polymorphisms to prove origin. <i>Human Genetics</i> , 2000, 107, 28-32.	1.8	12
77	Circulating mRNA for the PLAC1 Gene as a Second Trimester Marker (14-18 Weeks' Gestation) in the Screening for Late Preeclampsia. <i>Fetal Diagnosis and Therapy</i> , 2014, 36, 196-201.	0.6	11
78	Whole-Genome Analysis of Human Papillomavirus Type 16 Prevalent in Japanese Women with or without Cervical Lesions. <i>Viruses</i> , 2019, 11, 350.	1.5	10
79	Higher circulating mRNA levels of placental specific genes in a patient with placenta accreta. <i>Prenatal Diagnosis</i> , 2011, 31, 827-829.	1.1	8
80	Tadalafil treatment for preeclampsia (medication in preeclampsia; MIE): a multicenter phase II clinical trial. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 3709-3715.	0.7	8
81	Accuracy of the FMF Bayes theorem-based model for predicting preeclampsia at 11-13 weeks of gestation in a Japanese population. <i>Hypertension Research</i> , 2021, 44, 685-691.	1.5	8
82	Detection and Quantification of Fetal DNA in Maternal Plasma by Using LightCycler Technology. <i>Methods in Molecular Biology</i> , 2008, 444, 231-238.	0.4	8
83	Current Status of the Screening of Chlamydia trachomatis Infection Among Japanese Pregnant Women. <i>Journal of Clinical Medicine Research</i> , 2015, 7, 582-584.	0.6	8
84	Examination of clinical factors affecting intrauterine microbiota. <i>Reproduction and Fertility</i> , 2021, 2, 1-6.	0.6	7
85	Cell-Free Fetal DNA in Plasma of Pregnant Women: Clinical Potential and Origin. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2005, 44, 116-122.	0.5	6
86	TADAFER II: Tadalafil treatment for fetal growth restriction - a study protocol for a multicenter randomised controlled phase II trial. <i>BMJ Open</i> , 2018, 8, e020948.	0.8	6
87	The routine use of prophylactic Bakri balloon tamponade contributes to blood loss control in major placenta previa. <i>International Journal of Gynecology and Obstetrics</i> , 2021, 154, 508-514.	1.0	6
88	Maternal Death Related to Sudden Unexpected Death in Epilepsy: A Nationwide Survey in Japan. <i>Brain Sciences</i> , 2021, 11, 995.	1.1	6
89	Fate of fetal nucleated erythrocytes circulating in maternal blood: apoptosis is induced by maternal oxygen concentration. <i>Clinical Chemistry</i> , 2002, 48, 1618-20.	1.5	6
90	A study of monoamine oxidase activity in fetal membranes. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 1996, 75, 423-427.	1.3	5

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91	Next-Generation Sequencing Reveals Downregulation of the Wnt Signaling Pathway in Human Dysmature Cumulus Cells as a Hallmark for Evaluating Oocyte Quality. <i>Reproductive Medicine</i> , 2020, 1, 205-215.	0.3	5
92	Nationwide survey for current clinical status of amniocentesis and maternal serum marker test in Japan. <i>Journal of Human Genetics</i> , 2016, 61, 879-884.	1.1	4
93	Postpartum questionnaire survey of women who tested negative in a non-invasive prenatal testing: examining negative emotions towards the test. <i>Journal of Human Genetics</i> , 2021, 66, 579-584.	1.1	4
94	Successful monozygotic triplet pregnancy after a single blastocyst transfer following in vitro maturation of oocytes from a woman with polycystic ovary syndrome: a case report. <i>BMC Pregnancy and Childbirth</i> , 2020, 20, 57.	0.9	4
95	How do the trends in the prenatal diagnosis of aneuploidy change after a non-invasive prenatal test becomes available? A Japanese single center study. <i>Journal of Medical Ultrasonics (2001)</i> , 2015, 42, 195-198.	0.6	3
96	Tadalafil treatment for fetuses with early-onset growth restriction: a protocol for a multicentre, randomised, placebo-controlled, double-blind phase II trial (TADAFER IIb). <i>BMJ Open</i> , 2022, 12, e054925.	0.8	3
97	Effects of Chemotherapy on Fertility Preservation in Patients with Tumors of the Hematopoietic and Lymphoid Tissues. <i>Reproductive Medicine</i> , 2022, 3, 141-149.	0.3	3
98	A Study of γ -Aminobutyric Acid (GABA) in Amniotic Fluid. <i>Journal of Obstetrics and Gynaecology Research</i> , 1997, 23, 471-477.	0.6	2
99	Declined use of cervical ripening balloon did not reduce the incidence of umbilical cord prolapse in Japan. <i>Journal of Obstetrics and Gynaecology Research</i> , 2020, 46, 1349-1354.	0.6	2
100	Infective endocarditis due to <i>Streptococcus agalactiae</i> in the puerperal period. <i>Journal of Obstetrics and Gynaecology Research</i> , 2021, 47, 2238-2241.	0.6	2
101	Evaluation of the clinical performance of noninvasive prenatal testing at a Japanese laboratory. <i>Journal of Obstetrics and Gynaecology Research</i> , 2021, 47, 3437-3446.	0.6	2
102	Evaluation of Second-generation HIFU Systems: Less-invasive Fetal Therapy for TRAP Sequence. <i>The Showa University Journal of Medical Sciences</i> , 2017, 29, 241-251.	0.1	2
103	Distribution of PAPP-A and total hCG between 11 and 13 weeks of gestation in Japanese pregnant women. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2020, 33, 2017-2022.	0.7	1
104	Successful Pregnancy in a Case of Behçet's Disease after Treatment with Prednisolone. <i>Case Reports in Obstetrics and Gynecology</i> , 2020, 2020, 1-5.	0.2	1
105	Fibrin Adhesive Spray Occlusion using a Laparoscope for Intractable Chylous Ascites: Case Report. <i>Japanese Journal of Gynecologic and Obstetric Endoscopy</i> , 2014, 30, 188-192.	0.0	1
106	Prevalence of common aneuploidy in twin pregnancies. <i>Journal of Human Genetics</i> , 2022, 67, 261-265.	1.1	1
107	Predictive ability of serum advanced glycation end products at 11 to 13 weeks of gestation for early-onset preeclampsia. <i>AJOG Global Reports</i> , 2022, 2, 100052.	0.4	1
108	Assessment of the value of measuring soluble fms-like tyrosine kinase-1 and placental growth factor levels following administration of tadalafil to treat fetal growth restriction. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 9131-9135.	0.7	1

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109	Reference values of Focused Assessment with Sonography for Obstetrics (FASO) in low risk population. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2015, 29, 1-17.	0.7	0
110	Three-Dimensional Peripheral Bloodstream Model of the Uterus for Laparoscopic Radical Hysterectomy. <i>Journal of Minimally Invasive Gynecology</i> , 2020, 27, 1196-1202.	0.3	0
111	Relationship between Malignant Transformation of Endometriosis and Genetic Alterations of K-ras and Microsatellite Instability. <i>The Showa University Journal of Medical Sciences</i> , 2004, 16, 47-54.	0.1	0
112	Fragmentation of Fetal DNA in Maternal Plasma and Urine. <i>The Showa University Journal of Medical Sciences</i> , 2005, 17, 81-87.	0.1	0
113	Quantitative RT-PCR Gene Expression Analysis of a Laser Microdissected Placenta: An Approach to Study Preeclampsia. <i>Methods in Molecular Biology</i> , 2011, 755, 477-489.	0.4	0
114	Prenatal Identification of Confined Placental Mosaicism in Pregnant Women with Fetal Growth Restriction. <i>Reproductive Sciences</i> , 2022, 29, 896-903.	1.1	0
115	Antimicrobial Resistance for <i>Chlamydia Trachomatis</i> Genital Infection during Pregnancy in Japan. <i>Infection and Chemotherapy</i> , 2022, 54, 173.	1.0	0