

A Bibliography of Publications of Yousef Saad

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Abstract

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Title word cross-reference

3D [GHS10]. $\exp(-\tau A)b$ [SSS10]. $f(A)b$ [CAS11]. **ILU** [LSC03]. **ILUS** [CS97c]. k [CrFS09]. **LU** [CS97c, LSS03b, Saa94d]. $\text{tr}(f(A))$ [CS18, UCS17].

'02 [AGPS03].

1982 [KR83]. **1988** [BTS⁺89]. **1992** [RRV93]. **1993** [BCEP94].

20th [Sv00, BW01].

5 [WS93].

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F [Saa95]. **Face** [KS05a]. **faces** [KS05a]. **Factored** [BS02b, BS02c, BS02a]. **Factorization** [HS06, LS05a, Saa92d, Saa94d]. **Factorizations** [MOKS12, XAKS23, CCS10, XAKS24]. **Fast** [CrFS09, USS17a, UCS17, VS14, XLS18, GS87, GS88b, GS88a, GS89b, GS89d, US19]. **February** [GGL94]. **feedback** [Saa88d]. **Fermi** [SS11]. **few** [Saa94b, Saa94e]. **field** [ZSTC06a, ZSTC06b]. **Filtered** [BKS08, rFS12, Saa06, AKS17, ZSTC06a, ZSTC06b, ZCS14]. **Filtering** [KXS18, LXV⁺16]. **Filters** [XS16]. **Finding** [Saa03a]. **finite** [CTS93, CTS94, CTWS94, JTD⁺94, KSS03, KSSG04]. **finite-difference** [CTWS94]. **finite-difference-pseudopotential** [JTD⁺94]. **first** [AJT⁺07]. **first-principles** [AJT⁺07]. **Five** [Saa24]. **fixed** [Saa25]. **fixed-point** [Saa25]. **flexible** [Saa91a, Saa93a]. **flow** [WGSC18]. **flows** [LLCS02]. **fMRI** [SS14]. **forces** [CJWS96]. **format** [CS97c]. **free** [ZCS14]. **frequency** [LXSDH20]. **Function** [XS17, SS11]. **Functional** [BKS08, BSK⁺03, RGSB08, SS11, dLGG⁺05]. **Functions** [FSUS20]. **Further** [BSS10, Saa00b].

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Saa87c, Saa88d, Saa88a, Saa88b, Saa88c,
SSZ98, SZ99c, SS99b, Sv00, SZ01, Saa01,

SS02b, Saa03b, Saa07, Saa20, Saa24, SMSW00, ZXS20, ZXS21]. **liquid** [LLCS02]. **localized** [CJWS96]. **Low** [CS09b, DKXS18, LS13a, LS17, UMS17, CS08, LXS16, XLS16, XKL⁺²², ZXS20, ZXS21]. **Low-Rank** [LS13a, LS17, LXS16, XLS16, XKL⁺²², ZXS20, ZXS21]. **LR** [Saa74b]. **LU** [CCS10]. **Lyapunov** [Saa90c]. **machine** [CSZ22]. **Magnetism** [TZA⁺⁰⁶]. **March** [GGL94, KR83, RRV93]. **Markov** [PSS92, Saa91c]. **Massively** [FWPS92]. **Material** [SÖS⁺⁰⁰]. **Materials** [PS20, SCS10]. **mathematical** [Fit86, Fit86]. **Matrices** [CS92, CS94, LSC03, LS13a, ÖBSC03, PS87, Saa85b, SW89, Saa96, SZ99b, Saa16, BSS09, CS93, CS96, CS97d, CS97e, LS05a, LSY16, PS85, Ruh94, Saa74a, Saa80c, Saa84a, Saa86b, Saa86e, Saa92c, Saa94c, UMS17, XLS16, XKL⁺²²]. **Matrix** [AGPS03, ASSS11, AEKS90, BDG⁺¹⁰, FSUS20, FWPS92, IS86a, OKLS15, PSWF93, SW88a, Saa92b, Saa94a, SW94, TS11, XAKS23, BJR⁺⁰⁹, BKS07, BGSS14, CCE⁺¹⁸, CS98a, Saa83a, Saa83b, SW88b, Saa90a, SW95, SW96a, SAD⁺⁰⁰, TS12, USS17a, US19, VSS14, XAKS24, dlGGs⁺⁰⁵, KR83]. **Memory** [Saa87b, SM95, Saa87a]. **Message** [Saa87b, Saa87a, WS93]. **Method** [SS80, Saa87d, CTS93, CTS94, CTWS94, CS18, EGMS20, JTD⁺⁹⁴, KSS03, KSSG04, LSS86, Saa80c, Saa85c, Saa23, SCS12, TS12, ZS08, ZCS14]. **Methods** [BTS⁺⁸⁹, Cha96, CCSY98, CS14, DS91b, GS92a, LS17, PSS92, SS81, SS85c, SS85e, SS85f, SS86a, Saa87b, SS87, Saa91b, Saa92e, Saa93b, Saa97, SCS10, Saa11a, Saa11b, Saa22, SSW98, SÖS⁺⁰⁰, TS11, ACSS12, BSS09, BS87, BS89, BS90, BS91, CSS02, CS85b, rFS09, Fit86, GS90b, GS92b, GGL94, JSS87, JSS07, KS92, KCS09, KCS11, Saa80a, Saa80b, Saa81, Saa82a, Saa82b, Saa83d, Saa83b, Saa83e, Saa84c, Saa87a, Saa88d, Saa89a, Saa90b, Saa90d, Saa91c, Saa92g, Saa92f, Saa98, Saa01, Saa03b, Saa20, Saa24, Saa25, SS98b]. **minimal** [SS86c, SW93, SW96b]. **minimum** [Saa00b]. **Minneapolis** [BTS⁺⁸⁹, GGL94]. **Minnesota** [BTS⁺⁸⁹, GGL94]. **MIQR** [LS06]. **Modeling** [PSS92, Fit86]. **models** [Saa91c]. **modern** [CSS02, SSC04]. **modes** [SLX⁺²²]. **Modification** [MOKS12]. **Modified** [CS99, Saa84a, Saa86b]. **module** [SW94, SW95, SW96a]. **Molecular** [CJWS96, BGB⁺¹⁰, JTD⁺⁹⁴]. **molecular-dynamics** [JTD⁺⁹⁴]. **molecules** [CTWS94]. **moment** [Saa84a, Saa86b]. **Multi** [Saa96, Saa92c, SSZ98, SZ99c, SZ01]. **Multi-Elimination** [Saa96, Saa92c]. **multi-level** [SSZ98, SZ99c, SZ01]. **Multicolor** [ZXS20, SS99b]. **Multielimination** [SZ99a]. **Multigrid** [CS85a, CS86]. **Multilevel** [BS05b, KXS18, LS06, SZ99a, SZ99b, Saa05, SrFS08, LSS03a, OKLS15, SS02b, SST04, SSC04, US19, XLS16, XKL⁺²²]. **multiple** [KMB⁺¹⁸]. **Multiprocessor** [CS85a, CSS85, CS86, ISS84, ISS86, CSS87]. **Multiprocessors** [SS85c, Saa85a, JSS87, SS81, Saa86c]. **multisecant** [rFS09]. **Multistage** [HS06]. **Multivariate** [CS14]. **N** [Saa83c]. **nanocrystals** [CTSZ07, CZC⁺⁰⁹]. **Neighborhood** [KS07, KS05b]. **News** [Cha96, Saa95]. **Newton** [BS94, WSS98]. **nlTGCR** [HTZ⁺²⁴]. **NN** [CrFS09]. **Non** [SS99c, SLX⁺²²]. **non-perturbative** [SLX⁺²²]. **Non-standard** [SS99c]. **nonlinear** [BCRZS22, BS87, BS89, BS90, BS91, BS94, EGMS20, rFS09, HTZ⁺²⁴, KS92, SGSM15]. **Nonsymmetric** [LSS03b, MS92, MS93, MS07b, Saa84b, SS85g, Saa85b, ESS86, Ruh94, Saa83a, Saa84c, SS86c, Saa87c, Saa88a, Saa88b, Saa88c, Saa89b]. **normal**

[BSS09, SLX⁺²²]. **North** [BCEP94]. **null** [ITS07]. **null-space** [ITS07]. **number** [Saa86e]. **numbers** [Saa84a, Saa86b]. **Numerical** [BW01, PSS92, RRV93, Saa83b, Saa87b, Saa89b, Saa90c, Saa92g, SCS10, Saa11b, Saa87a, Saa91c].

oblique [Saa80a, Saa82a]. **Observer** [DS91b]. **October** [BTS⁺⁸⁹]. **ODE** [GS81, GS83]. **Ohio** [RRV93]. **Operator** [Saa92b, CS98a]. **OPRA** [KS05a]. **OPRA-faces** [KS05a]. **Optimal** [CS09b, CS08]. **Optimization** [NBS10, NBS12, BSS09, KCS09, KCS11]. **order** [CSW00, CTWS94, JTD⁺⁹⁴]. **Origin** [Saa22, Saa74c]. **Orthogonal** [CS09b, KS05b, KS07, CS08, Saa83d]. **orthogonalization** [SW93, SW96b]. **other** [Saa80a, Saa82a]. **outer** [Saa91a, Saa93a]. **Overlapping** [CS92, CS93, CS96, LS05b]. **overview** [Saa90d].

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[SW94, SW95, SW96a, SKL⁺⁹⁷]. **Package** [SW88a, SS02a, SW88b, SW90, XKL⁺²²]. **papers** [GGL94]. **Parabolic** [GS92a, GS89c, GS89a, GS90b, GS90a, GS92b]. **Parallel** [BDG⁺¹⁰, BGSS14, BSK⁺⁰³, CSS02, CS97f, FWPS92, FRSY96, GS90a, HS06, IS85, IS86b, IS86a, SS85e, SS85f, SS86b, SS86a, Saa87b, SS87, SW94, SS99c, Saa01, SS02a, SÖS⁺⁰⁰, XAKS23, ZSTC06a, AS88, AS89, CS99, GS87, GS88b, GS88a, GS89b, GS89c, GS89a, GS89d, GHS10, LSS03a, LLCS02, SS80, Saa87a, SS89b, Saa92c, Saa94c, SW95, SW96a, SKL⁺⁹⁷, SS99b, SSC04, XKL⁺²², XAKS24, AGPS03, ASSS11]. **parGeMSLR** [XKL⁺²²]. **Parlett** [Saa83c]. **pARMS** [LSS03a, SS02a]. **Partial** [CSS85, DS91b, Saa85b, XS16, XAKS23, CSS87, Saa88d, XAKS24]. **partially** [BSC05]. **Particle** [LLCS02]. **partitioned** [CS97d]. **partitioning** [GS94, LLCS02, Saa74a, VSS14]. **Passing** [Saa87b, Saa87a, WS93]. **Pencils** [KR83, XAKS23, XAKS24]. **Performance** [WS93]. **periodic** [AJT⁺⁰⁷]. **perturbative** [SLX⁺²²]. **Phase** [WGSC18]. **physical** [CSS02, SSC04]. **Pite** [KR83]. **Pivoting** [BS02b, BS02a, LS05a]. **plane** [JKSC99, Saa83a, Saa84a, Saa86b, Saa86e, Saa87c]. **plane-wave** [JKSC99]. **planets** [SLX⁺²²]. **PMAA** [AGPS03]. **PMAA'10** [ASSS11]. **Point** [LS03, LSS03b, Saa25]. **pole** [Saa88d]. **Polynomial** [BKS08, CAS11, FSUS20, LXV⁺¹⁶, YXS21, GS90b, LXSDH20, Saa85c]. **polynomials** [Saa83d, Saa83a, Saa87c, SSS10]. **portable** [SKL⁺⁹⁷]. **Positive** [SS80, VSS14]. **posteriori** [CS18]. **potential** [CTS93, CTS94]. **power** [ZXS21]. **Practical** [BTS⁺⁸⁹, Saa84c, Saa85c, BTS⁺⁸⁹]. **Preconditioned** [CCSY98, CS14, SS85f, SS86a, Saa91b, Saa93b, Saa98, LS13b, Saa91a, Saa92f, Saa93a]. **Preconditioner** [BS02b, DKXS18, LS05b, LS06, Saa96, SZ99a, SZ99b, XS17, BS02a, CS97c, Saa92c, XLS16, ZXS20, ZXS21]. **Preconditioners** [BS05b, CS94, CS98b, LS13a, LS17, LS03, LSS03b, MS92, MS93, MS94, CS97a, CSW00, CS97e, CS97f, GSS03, LXS16, Saa94c, SZ99c, Saa07]. **Preconditioning** [CS98a, KSS03, KSSG04, OKS10, Saa88a, Saa88b, Saa88c, SAD⁺⁰⁰, Saa03a, SMSW00, SSF93, YXS21, LXSDH20, OKLS15, SS99b, SZ01, SSF95, VSS14, WSS98, XKL⁺²²]. **preconditionings** [Saa85c]. **Predicting** [SÖS⁺⁰⁰, CTJ⁺⁹⁵]. **Preserving** [CCSY98, KS07, KS05b]. **Prewhitening** [SS14]. **primitives** [WS93]. **principles** [AJT⁺⁰⁷]. **probing** [TS12]. **Problem** [NBS10, NBS12, CKV⁺⁰³, Saa23, SCS12, Saa83c]. **Problems** [BSS10, DS91b, rFS12, GGL94, IS85, LS06, LXV⁺¹⁶, LS03, LSS03b, MS07b, PS89, Saa84b, Saa11b, Saa16, SSF93, XLS18, CSW00, DS91a, EGMS20, FRSY96, IS86b, KLS16, KKPS18, Ruh94, Saa82b, Saa83a, Saa83b, Saa83e, Saa89b, Saa90d],

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Saad [Cha96, CJ04]. **Saddle** [LS03, LSS03b]. **Sampling** [CS14, US19]. **scalable** [KMB⁺18]. **Scale** [BTS⁺89]. **Schur** [BS05a, DKXS18, GHS10, KLS16, LS05b, LXS16, SS99a, Saa07, XKL⁺22, ZXS21, ZS08]. **SchurRAS** [LS05b]. **Science** [PS20]. **Scientific** [RRV93, Saa95, CSZ22]. **seismic** [Fit86, SLX⁺22]. **Selection** [MS07a]. **Self** [ZSTC06b, ZSTC06a]. **Self-consistent-field** [ZSTC06b, ZSTC06a]. **Semantic** [SrFS08, VS14]. **semiconductor** [KS87]. **semiconductors** [SKBS88]. **separation** [CCE⁺18]. **Sequence** [BRZS18]. **sets** [SS14]. **Several** [Saa87d]. **Sham** [SCS12, ZCS14]. **Shanks** [BRZS18, BCRZS22]. **shaped** [Saa24]. **Shared** [Saa87b, Saa87a]. **Shift** [PS87, PS85]. **Shifts** [Saa74c, Ruh94]. **shrinkage** [USS17b]. **Si** [JTD⁺94]. **Sides** [Saa87d, KMB⁺18]. **Signal** [FSUS20]. **simulation** [KS87]. **simulations** [ACSS12, JTD⁺94]. **Singular** [CS09a]. **skyline** [CS97c]. **Slicing** [LXES19, SCS12]. **Smallest** [BS05a]. **SMASH** [CCE⁺18]. **SNAP** [ITS07]. **Software** [AEKS90, LXES19, Saa92a]. **solid** [LLCS02]. **solid-liquid** [LLCS02]. **Solution** [DS91a, GS92a, ISS84, IS85, ISS86, IS86b, SSC⁺96, SS98a, SS99c, GS87, GS88b, GS88a, GS89b, GS89c, GS89a, GS90b, GS90a, GS92b, GS81, GS83, ITS07, KSS03, KSSG04, SS81, Saa83d, Saa83b, Saa89b, Saa90c, Saa91c, SW95, SW96a, Sv00, SST04, Saa24, SGSM15, XKL⁺22]. **solver** [KMB⁺18, LSS03a, SS02b, SSC04]. **Solvers** [SM95, GS89d, GHS10, KKPS18, LS13b, SW94, SKL⁺97, SST04]. **Solving**

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