

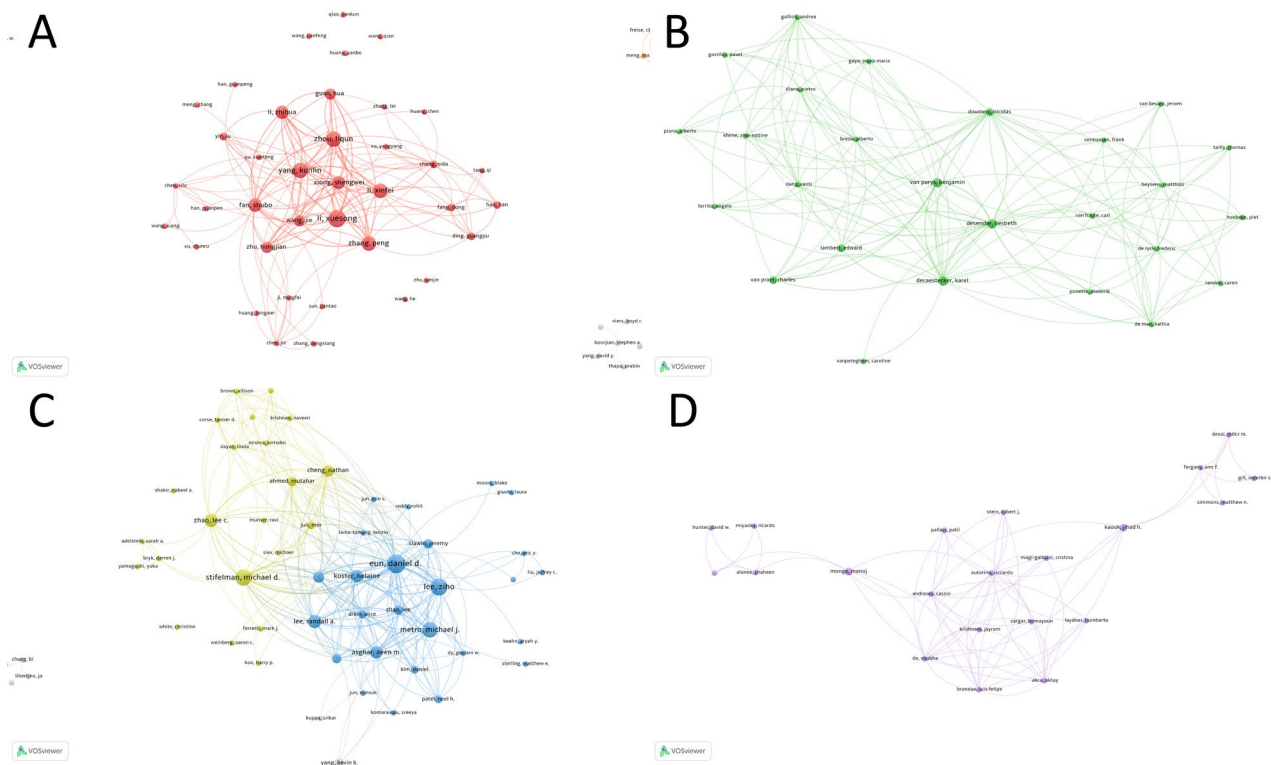


Figure S1 Five largest cluster of authors.

Table S1 The basic information of the top 100 most cited papers

Description	Results
MAIN INFORMATION ABOUT DATA	
Timespan	2000:2023
Sources (Journals, Books, etc)	33
Documents	100
Annual Growth Rate %	-1.75
Document Average Age	8.73
Average citations per doc	25.13
References	1440
DOCUMENT CONTENTS	
Keywords Plus (ID)	215
Author's Keywords (DE)	172
AUTHORS	
Authors	468
Authors of single-authored docs	0
AUTHORS COLLABORATION	
Single-authored docs	0
Co-Authors per Doc	6.36
International co-authorships %	9
DOCUMENT TYPES	
article	86
article; proceedings paper	2
review	12

Table S2 Keywords included in the analysis

Frequency	Degree	Centrality	Keywords	Year
12	56	0.28	complications	2000
26	55	0.27	experience	2000
24	51	0.19	replacement	2001
21	50	0.23	management	2000
10	44	0.19	buccal mucosa graft	2014
13	38	0.1	reimplantation	2012
11	35	0.12	outcm	2015
10	33	0.17	renal transplantation	2010
5	30	0.13	children	2010
9	29	0.11	benign	2014
12	28	0.04	injury	2007
11	28	0.05	surgery	2009
7	27	0.13	obstruction	2011
8	27	0.08	strictures	2002
8	27	0.06	boari flap	2009
12	27	0.05	ileal ureter	2006
6	26	0.13	graft	2000
5	25	0.06	bladder	2007
7	24	0.05	repair	2011
5	23	0.03	flap	2011
10	20	0.03	psoas hitch	2009
5	20	0.02	clinical application	2003
9	19	0.02	renal autotransplantation	2011
6	19	0.02	lingual mucosa graft	2016
6	19	0.07	indocyanine green	2015
4	18	0.03	ureteroneocystostomy	2007
7	18	0.01	substitution	2009
11	17	0.04	ureteral reconstruction	2009
5	17	0.01	interposition	2009
16	16	0.03	robotic surgery	2009
7	16	0.01	ileum	2007
6	16	0.02	minimally invasive	2017
2	16	0.01	assisted laparoscopic pyeloplasty	2009
6	16	0.03	urinary tract	2001
2	14	0.01	defects	2010
4	14	0.01	kidney	2006
2	14	0.01	donor nephrectomy	2011
2	13	0	appendiceal interposition	2020
3	13	0.05	endouretotomy	2002
2	12	0.01	bowel	2007
2	12	0	distal ureter	2012
2	12	0.01	tube	2007
2	12	0.01	bladder augmentation	2000
4	11	0.01	ureteropelvic junction obstruction	2009
2	11	0.01	diagnosis	2000
4	11	0.02	ureteral obstruction	2010
2	11	0.05	hitch	2009
2	11	0	assisted technique	2020
5	11	0	urethroplasty	2011
1	10	0.01	deceased donor	2013
2	10	0	single surgeon experience	2015
3	10	0	small intestine	2003
3	10	0.01	urological complications	2010
2	10	0	pathology	2015
1	10	0.01	consecutive transplants	2013
4	10	0.02	urinary diversion	2011
2	9	0.01	vesicoureteral reflux	2016
2	9	0	middle	2022
3	9	0.01	stenosis	2006
1	9	0	pediatric urology	2019
1	9	0	acute graft pyelonephritis	2016
1	9	0	prevention	2016
1	9	0	endoscopic treatment	2019
1	9	0	dismembered pyeloplasty	2019
2	9	0.05	calculi	2018
1	8	0	appendiceal flap	2021
1	8	0	pressure	2017
2	8	0	ureteral stenosis	2010
1	8	0	distal ureteral reconstruction	2023
2	8	0	mouth mucosa	2017
1	8	0	stem cells	2017
1	8	0	consequences	2018
1	8	0	antireflux technique	2020
1	8	0	proximal ureteral stricture	2016
1	8	0	renal pelvis	2017
1	8	0	patch	2017

Table S2 *(continued)*

Table S2 (continued)

Frequency	Degree	Centrality	Keywords	Year
1	8	0	harvest	2016
1	7	0	nephrectomy	2020
3	7	0	vermiform appendix	2020
2	7	0	ureterostomy	2010
1	7	0	dog model	2001
1	7	0	ureteral surgery	2009
4	7	0	recipients	2011
1	7	0	primary vesicoureteral reflux	2019
2	7	0	dilation	2000
1	7	0	onlay ureteroplasty	2021
1	7	0	da vinci	2009
1	7	0	pyeloplasty	2021
1	7	0	boys	2011
2	7	0	series	2013
1	7	0	detrusor	2001
2	7	0	pyeloureterostomy	2017
1	7	0	laparoscopic and robotic surgery	2021
2	7	0	small intestine submucosa	2009
1	7	0	term follow up	2011
1	7	0	pelvic flap	2021
1	7	0	irradiation	2018
1	7	0	colon segments	2013
1	7	0	distal ureteral stricture	2022
1	6	0	augmented anastomotic urethroplasty	2018
1	6	0	submucosa	2007
1	6	0	skin	2010
1	6	0	antireflux	2012
1	6	0	chest-wall	2018
1	6	0	ureterovesical junction obstruction	2019
1	6	0	forces	2000
1	6	0	bioreactor	2012
1	6	0	duplication	2014
1	6	0	model	2012
1	6	0	term outcm	2022
1	6	0	graft-survival	2011
1	6	0	ileal	2012
1	6	0	recipient	2016
2	6	0	early repair	2007
1	6	0	mesothelial cells	2012
1	6	0	duplex kidney	2014
1	6	0	ureteral replacement	2000
1	6	0	hypospadias repair	2010
1	6	0	onlay	2022
1	6	0	cells	2000
1	6	0	access sheath	2018
1	6	0	peritoneal cavity	2012
2	6	0	urethral stricture	2016
1	6	0	amniotic membrane	2007
1	6	0	transplantation	2007
1	6	0	iatrogenic disease	2009
2	6	0	renal function	2020
1	6	0	ureterocystoplasty	2000
1	5	0	bladder cancer	2020
1	5	0	radical cystectomy	2021
1	5	0	open surgery	2019
1	5	0	assisted ureteroureterostomy	2017
1	5	0	kidney stones	2018
1	5	0	quality of life	2014
1	5	0	muscle flap	2021
1	5	0	institutions	2017
1	5	0	multinational evaluation	2017
1	5	0	segments	2012
1	5	0	cohort	2019
1	5	0	artificial grafts	2010
1	5	0	gynecological surgery	2007
1	5	0	anastomotic stricture	2021
1	5	0	renal bypass grafts	2010
4	5	0	ureteral reimplantation	2012
1	5	0	pelvic malignancy	2010
1	5	0	detour	2021
1	5	0	transplant ureteral stricture	2011
1	5	0	tissue engineering	2012
1	5	0	laparoscopic radical hysterectomy	2014
1	5	0	disease	2018
1	5	0	hernia	2021
1	5	0	natural-history	2020

Table S2 (continued)

Table S2 (continued)

Frequency	Degree	Centrality	Keywords	Year
1	5	0	bladder neck obstruction	2021
1	5	0	25 year experience	2010
1	5	0	postcancer surgery	2014
1	4	0	incision	2015
1	4	0	endothelial growth factor	2013
1	4	0	epithelial cells	2013
1	4	0	interstitial cells	2020
1	4	0	cystinuria	2003
1	4	0	extrinsic compression	2015
1	4	0	single port	2023
1	4	0	balloon dilation	2018
1	4	0	regeneration	2001
1	4	0	site	2016
1	4	0	subureteral polydimethylsiloxane injection	2016
1	4	0	anastomotic strictures	2018
1	4	0	endoscopic management	2015
1	4	0	system	2006
1	4	0	power	2022
1	4	0	near-infrared light	2015
1	4	0	holmium laser lithotripsy	2022
1	4	0	endourological management	2018
1	4	0	non-antireflux	2020
1	4	0	learning curve	2012
1	4	0	scaffold	2013
1	4	0	native ureter	2019
1	4	0	cajal	2020
1	4	0	metal stents	2021
1	4	0	ileal conduit	2018
1	4	0	extracellular matrix	2013
1	4	0	invivo	2001
1	4	0	ureterectomy	2012
1	4	0	pneumatic lithotripsy	2022
1	4	0	difference	2012
1	4	0	live donor	2013
1	4	0	differentiation	2013
1	4	0	double-j stent	2021
1	4	0	ureteroureterostomy	2012
1	4	0	size	2015
1	4	0	laparoscopic boari flap	2012
1	3	0	ureteral tumor	2009
1	3	0	recurrent ureteral stricture	2019
1	3	0	angiography	2021
1	3	0	urinary-tract-infections	2016
1	3	0	laser endoureterotomy	2020
1	3	0	robotic ureteroplasty	2022
1	3	0	cancer	2021
1	3	0	glomerular hemodynamics	2022
1	3	0	single institution	2015
1	3	0	ureteroceles	2014
1	3	0	hitch technique	2013
1	3	0	downward nephropexy	2018
1	3	0	distal ureterectomy	2009
1	3	0	case report	2020
1	3	0	long term	2020
1	3	0	glans reconstruction	2014
1	3	0	bladder flap	2018
1	3	0	laparoscopic ureteral reimplantation	2009
2	3	0	iatrogenic injuries	2018
1	3	0	endourological surgery	2020
1	3	0	laparoscopy approach	2020
1	3	0	laparoscopic surgery	2021
1	3	0	ipsilateral ureteroureterostomy	2014
1	2	0	bench surgery	2018
1	2	0	necrosis	2011
2	2	0	failed pyeloplasty	2019
1	2	0	lichen sclerosis	2014
1	2	0	meatal stenosis	2014
1	1	0	distal	2015
1	1	0	penile cancer	2014
3	1	0	surgical management	2014
1	1	0	radiation-induced ureteral stricture	2021
1	1	0	dilatation	2021
1	0	0	laparoscopic ureterocalicostomy	2005